

# LBT-XG100AV/XG900AV

HCR-XG100AV/XG900AV

## SERVICE MANUAL

Ver 1.0 2001.04

- LBT-XG100AV/XG900AV are composed of following models.  
As for the service manual, it is issued for each component model, then, please refer to it.

### COMPONENT MODEL NAME FOR LBT-XG100AV/XG900AV.

	LBT-XG100AV	LBT-XG900AV
COMPACT DISC DECK RECEIVER SYSTEM	HCD-XG100AV	HCD-XG900AV
FRONT SPEAKER SYSTEM	SS-XG100AV	SS-XG900AV
CENTER SPEAKER SYSTEM	SS-CT210	
REAR SPEAKER SYSTEM	SS-RS210	

HCR-XG100AV is composed of HCD-XG100AV, SS-CT210 and SS-RS210.  
HCR-XG900AV is composed of HCD-XG900AV, SS-CT210 and SS-RS210.

### SPECIFICATIONS

Power requirements  
European models: 230 V AC, 50/60 Hz  
Mexican model: 120 V AC, 50/60 Hz  
Australian model: 230 – 240 V AC, 50/60 Hz  
Other models: 120 V, 220 V or 230 – 240 V AC, 50/60 Hz  
Adjustable with voltage selector

Power consumption  
LBT-XG900AV 200 watts  
0.6 watts (at the power saving mode)  
LBT-XG100AV 230 watts

Dimensions (w/h/d) Approx. 355 × 425 × 450 mm

Mass :  
LBT-XG900AV Approx. 14.5 kg  
LBT-XG100AV Approx. 16.0 kg

Supplied accessories:  
AM loop antenna (1)  
FM lead antenna (1)  
Speaker cords (5)  
Speaker pads (12)  
Remote commander (1)  
Batteries (2)

Design and specifications are subject to change without notice.

### PARTS LIST

Part No.	Description	Remark
ACCESSORIES & PACKING MATERIALS *****		
1-418-230-11	COMMANDER, STANDARD (RM-SR11AV)	
1-501-374-11	ANTENNA, LOOP (AM)	
1-501-659-41	ANTENNA (FM) (XG100AV)	
1-501-804-11	ANTENNA (FM) (XG900AV)	
1-751-347-11	CORD, CONNECTION (10m) (for SS-RS210)	
1-769-433-21	CORD, SPEAKER (2.5m) (for SS-CT210)	
1-775-512-21	CORD, SPEAKER CONNECTION (2.5m) (for SS-XG100AV/XG900AV)	
4-210-254-01	CUSHION (FOOT) (for SS-XG100AV/XG900AV)	
4-233-530-11	MANUAL, INSTRUCTION (ENGLISH) (XG100AV: AR, AUS/XG900AV: UK)	
4-233-530-31	MANUAL, INSTRUCTION (SPANISH) (XG100AV: AR, MX)	
4-233-530-41	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (XG100AV: E2/XG900AV: AEP)	
4-233-530-51	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH) (XG900AV: AEP)	
4-233-530-61	MANUAL, INSTRUCTION (ITALIAN, POLISH) (XG900AV: AEP)	
4-235-500-11	MANUAL, INSTRUCTION (ENGLISH) (XG900AV: AEP)	
4-235-500-21	MANUAL, INSTRUCTION (HUNGARIAN, CZECH) (XG900AV: AEP)	
4-235-500-31	MANUAL, INSTRUCTION (TURKISH) (XG900AV: AEP)	
4-235-500-41	MANUAL, INSTRUCTION (SLOVAKIAN) (XG900AV: AEP)	
4-972-322-01	FOOT (Y) (for SS-CT210/RS210)	
4-988-173-01	COVER, BATTERY (for RM-SR11AV)	

•Abbreviation  
AR : Argentine model  
MX : Mexican model

*AEP Model*

*UK Model*

*LBT-XG900AV*

*E Model*

*Australian Model*

*LBT-XG100AV*

## COMPACT Hi-Fi STEREO SYSTEM

9-873-814-11  
2001D0500-1  
© 2001.4

**Sony Corporation**  
Home Audio Company  
Shinagawa Tec Service Manual Production Group

# SONY®

## REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

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# HCD-XG100AV/XG900AV

## SERVICE MANUAL

Ver 1.0 2001.04



Photo: HCD-XG900AV

*AEP Model*

*UK Model*

*HCD-XG900AV*

*E Model*

*Australian Model*

*HCD-XG100AV*

HCD-XG100AV/XG900AV are the amplifier, CD player, tape deck and tuner section in LBT-XG100AV/XG900AV.

This stereo system is equipped with the Dolby B-type noise reduction system\*.

\* Manufactured under license from Dolby Laboratories.

"Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

CD Section	Model Name Using Similar Mechanism	HCD-XG80
	CD Mechanism Type	CDM37M-5BD32L
	Base Unit Name	BU-5BD32L
	Optical Pick-up Name	KSS-213DH
TAPE Section	Model Name Using Similar Mechanism	HCD-XG80
	Tape Transport Mechanism Type	TCM-230PWR42

### SPECIFICATIONS

#### Amplifier section

##### HCD-XG900AV

##### Front Speaker:

DIN power output (Rated)

90 + 90 watts  
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

120 + 120 watts  
(6 ohms at 1 kHz, 10% THD)

Music power output (Reference)

200 + 200 watts  
(6 ohms at 1 kHz, 10% THD)

##### Center Speaker:

DIN power output (Rated)

30 watts  
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

40 watts  
(8 ohms at 1 kHz, 10% THD)

Music power output (Reference)

60 watts  
(8 ohms at 1 kHz, 10% THD)

##### Rear Speaker:

DIN power output (Rated)

30 + 30 watts  
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

40 + 40 watts  
(8 ohms at 1 kHz, 10% THD)

Music power output (Reference)

60 + 60 watts  
(8 ohms at 1 kHz, 10% THD)

##### HCD-XG100AV

##### Front Speaker:

The following measured at AC 120/220/240 V, 50 Hz

DIN power output (Rated)

150 + 150 watts  
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

200 + 200 watts  
(6 ohms at 1 kHz, 10% THD)

##### Center Speaker:

DIN power output (Rated)

35 watts  
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

50 watts  
(8 ohms at 1 kHz, 10% THD)

##### Rear Speaker:

DIN power output (Rated)

35 + 35 watts  
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (Reference)

50 + 50 watts  
(8 ohms at 1 kHz, 10% THD)

##### Inputs

DJ MIX IN\*:  
(phono jacks)

sensitivity 250 mV,  
impedance 47 kilohms

GUITAR IN:  
(phone jack)

sensitivity 75 mV,  
impedance 470 kilohms

PHONO IN:  
(phono jacks)

sensitivity 3 mV,  
impedance 47 kilohms

MIX MIC:  
(phone jack)

sensitivity 1 mV,  
impedance 10 kilohms

VIDEO IN:  
(phono jack)

sensitivity 250 mV,  
impedance 47 kilohms

GAME IN:  
(phono jack)

sensitivity 250 mV,  
impedance 47 kilohms

MD IN:  
(phono jack)

sensitivity 450 mV,  
impedance 47 kilohms

##### DVD INPUT

FRONT, REAR, CENTER, WOOFER (phono jacks):  
sensitivity 450 mV,  
impedance 47 kilohms

Outputs  
DJ MIX OUT\*:  
(phono jacks)

sensitivity 250 mV,  
impedance 1 kilohms

PHONES:  
(stereo phone jack)

accepts headphones of 8  
ohms or more

VIDEO OUT:  
(phono jack)

voltage 250 mV  
impedance 1 kilohm

— Continued on next page —

## COMPACT DISC DECK RECEIVER

9-873-815-11

2001D0500-1

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**Sony Corporation**

**Home Audio Company**

**Shinagawa Tec Service Manual Production Group**

# SONY®

HCD-XG100AV/XG900AV

MD OUT: (phono jacks)	voltage 250 mV impedance 1 kilohm
WOOFER OUT (phono jack):	voltage 1 V, impedance 1 kilohm
FRONT SPEAKER:	accepts impedance of 6 to 16 ohms
CENTER SPEAKER:	accepts impedance of 8 to 16 ohms
REAR SPEAKER:	accepts impedance of 8 to 16 ohms

\* AEP, UK and Mexican models only

Video section

Inputs	
VIDEO IN (phono jack):	1 V p-p, 75 ohms
GAME IN (phono jack):	1 V p-p, 75 ohms

Output	
VIDEO OUT (phono jack):	1 V p-p, 75 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ=780nm), Emission duration: continuous
Wavelength	780 – 790 nm
Frequency response	2 Hz – 20 kHz (±0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
CD OPTICAL DIGITAL OUT (Square optical connector jack, rear panel)	
Wavelength:	660 nm
Output level	–18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette 40 – 14,000 Hz (±3 dB), using Sony TYPE II cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz (50 kHz step)
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
European, Middle Eastern, and Philippine models:	531 – 1,602 kHz (with the interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
AEP, UK models:	230 V AC, 50/60 Hz
Mexican model:	120 V AC, 50/60 Hz
Australian model:	230 – 240 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	
HCD-XG900AV	200 watts 0.6 watts (at the power saving mode)
HCD-XG100AV	230 watts
Dimensions (w/h/d)	Approx. 355 × 425 × 450 mm
Mass :	
HCD-XG900AV	Approx. 14.5 kg
HCD-XG100AV	Approx. 16.0 kg

Design and specifications are subject to change  
without notice.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

**CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



This appliance is classified as  
a CLASS 1 LASER product.  
The CLASS 1 LASER  
PRODUCT MARKING is  
located on the rear exterior.

The following caution label is located inside the unit.

**CAUTION** : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

**ADVARSEL** : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

**VORSICHT** : UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSPERRRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.

**VARO!** : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALT-TIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

**VARNING** : OSYNLIG LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.



**ADVERSEL** : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.

**VIGYAZAT!** : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

**DANGER**  
INVISIBLE LASER  
RADIATION WHEN OPEN  
AND INTERLOCK  
DEFEATED. AVOID  
DIRECT EXPOSURE TO  
BEAM.

**DANGER**  
RADIATION DE LESER  
INVISIBLE LORS D'OUVERTURE.  
AVEC L'ENCLenchement DE  
SECURITE ANNULE. EVITER  
L'EXPOSITION DIRECTE AU  
RAYON.

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

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SECTION 1  
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP  
BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.  
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.  
The flexible board is easily damaged and should be handled with care.

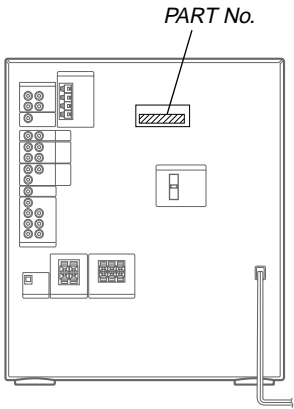
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION  
CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveforms is output three times.

• MODEL IDENTIFICATION  
– Rear Panel –



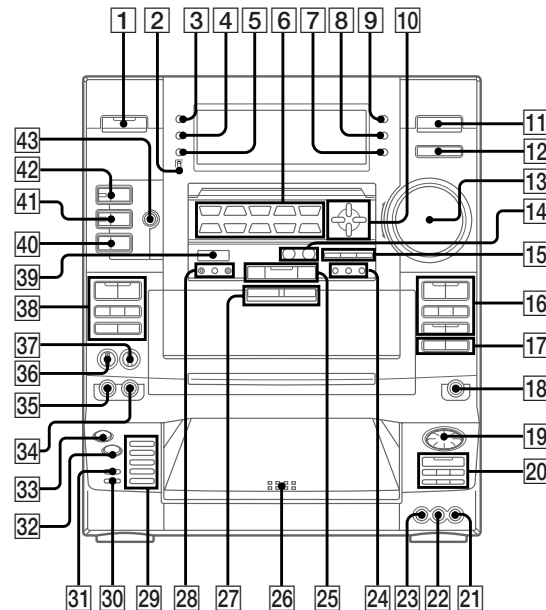
MODEL	PART No.
AEP and UK models	4-232-089-1□
120 V AC area in E model	4-232-089-2□
Singapore model	4-232-089-3□
Mexican model	4-232-089-4□
Australian model	4-232-089-5□
Saudi Arabia model	4-232-089-6□
Argentina model	4-232-089-7□

## SECTION 2 GENERAL

This section is extracted from instruction manual.

### LOCATION OF CONTROLS

– Front Panel –



A EJECT ▲/▲ B EJECT 27 (17)

AUDIO L jack 22 (26)

AUDIO R jack 21 (26)

CD SYNC 17 (18,19)

DIRECT EQUALIZER 6 (21)

SALSA REGGAE

SAMBA TANGO

MOVIE GUITAR

ROCK JAZZ

DANCE GAME

DIRECTION 38 (17~19,23)

DISC SKIP 20 (11,12,19)

DISC 1~5 29 (11)

DISPLAY 4 (10,13,15)

DOLBY NR 38 (17,18)

DSP 43 (21)

DVD 5.1 CH 14 (28)

EDIT 31 (19)

ENTER 28 (14,16)

ENTER/NEXT 15

(10,19,20,22,25,32)

FLASH 32 (13)

FLAT 15 (21)

FUNCTION 11

(8,11,12,18,19,23,26,27)

GAME 12 (24,26)

GROOVE 42 (21)

GUITAR DISTORTION 28 (24)

GUITAR jack 34 (24)

GUITAR LEVEL 37 (24)

H SPEED DUB 17 (18)

IR receptor 2

Jog dial (AMSI◀◀/▶▶) 19

(11~13,19)

LOOP 33 (8,13)

MIC LEVEL 36 (23)

MIX GUITAR/KARAOKE 39 (23,24)

MIX MIC jack 35 (23)

NON STOP 30 (12)

P.FILE 15 (21,22)

PHONES jack 18

PLAY MODE 20 (11,12,19)

POWER SAVE/DEMO

(STANDBY) 3 (10)

PRO LOGIC 14 (10,22)

PTY 24 (16) \*AEP, UK model only

PUSH OPEN 26 (11)

REPEAT 20 (11)

SLEEP 8 (24)

SPECTRUM ANALYZER 5 (23)

STEREO/MONO 24 (15)

SUPER WOOFER 41 (21,27)

SUPER WOOFER MODE 40 (21)

TIMER SELECT 9 (20,25)

TUNER/BAND 25 (14,15,18)

TUNER MEMORY 28 (14)

TUNING MODE 24 (14,15)

VIDEO jack 23 (26)

VOLUME control 13 (15)

### BUTTON DESCRIPTIONS

I/⏻ 1

⌚/CLOCK SET 7

▲/▼/◀/▶ 10

● REC 16

⏸ 16

◀◀/▶▶, AMSI◀◀/▶▶

(TAPE A/B) 16/38

◀/▶ 16/38

■ 16/20/38

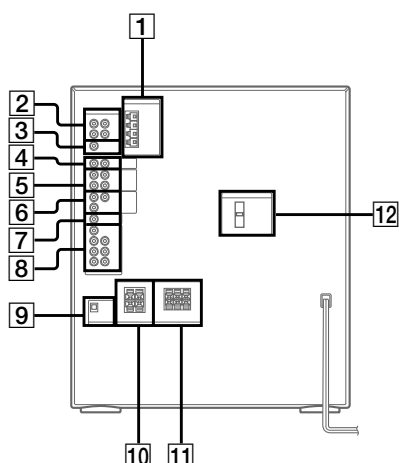
◀◀/▶▶ (CD) 20

▷|| 20

+/- 25

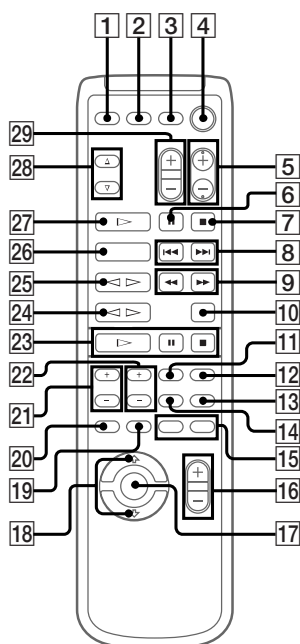
# HCD-XG100AV/XG900AV

## – Rear Panel –



- 1 ANTENNA terminal
- 2 DJ MIX RETURN/SEND jack (AEP, UK Mexican models)
- 3 SUB WOOFER OUT jack
- 4 PHONO IN jack
- 5 MD IN/OUT jack
- 6 VIDEO/AUDIO IN jack
- 7 VIDEO OUT jack
- 8 DVD INPUT VIDEO/FRONT/REAR/CENTER/WOOFER jack
- 9 CD DIGITAL OUT OPTICAL terminal
- 10 FRONT SPEAKER terminal
- 11 REAR/CENTER SURROUND SPEAKER terminal
- 12 VOLTAGE SELECTOR switch  
(120 V AC area in E, Saudi Arabia, Singapore, Argentina models)

## Remote control



CD ▷ 27 (11)  
 CENTER LEVEL +/- 21 (10)  
 CHECK 20 (12)  
 CLEAR 19 (12)  
 DECK A <▷ 25 (17)  
 DECK B <▷ 24 (17)  
 D.SKIP 10 (11,12,19)  
 DSP 12 (21)  
 FILE SELECT ON/OFF 17 (21)  
 FILE SELECT +/- 18 (13)  
 FLASH 15 (13)  
 FUNCTION 28  
 (8,11,12,18,19,23,26,27)  
 LOOP 15 (13)  
 MD ▷ 23  
 MD II 23  
 MD ■ 23  
 PRO LOGIC 11 (10,22)

REAR LEVEL +/- 22 (10)  
 SLEEP 1 (24)  
 SUPER WOOFER 13 (21,27)  
 T.TONE 14 (10)  
 TUNER/BAND 28 (14,15,18)  
 TUNING +/- 5 (15)  
 TV CH +/- 5 (28)  
 TV/VIDEO 2 (28)  
 TV VOL +/- 29 (28)  
 TV I/ON 3 (28)  
 VOL +/- 16 (15)

### BUTTON DESCRIPTIONS

I/ON 4  
 II 6  
 ■ 7  
 I<</>> 8  
 <</>> 9

## Setting the time

- 1 Turn on the system.
- 2 Press **CLOCK SET**.  
 When you set the time for the first time, skip to step 5.
- 3 Press **▲/▼** repeatedly to select “SET CLOCK.”
- 4 Press **ENTER/NEXT**.
- 5 Press **▲/▼** repeatedly to set the hour.
- 6 Press **ENTER/NEXT**.  
 The minute indication flashes.
- 7 Press **▲/▼** repeatedly to set the minute.
- 8 Press **ENTER/NEXT**.  
 The clock starts working.

### Tip

If you've made a mistake or want to change the time, start over from step 2.

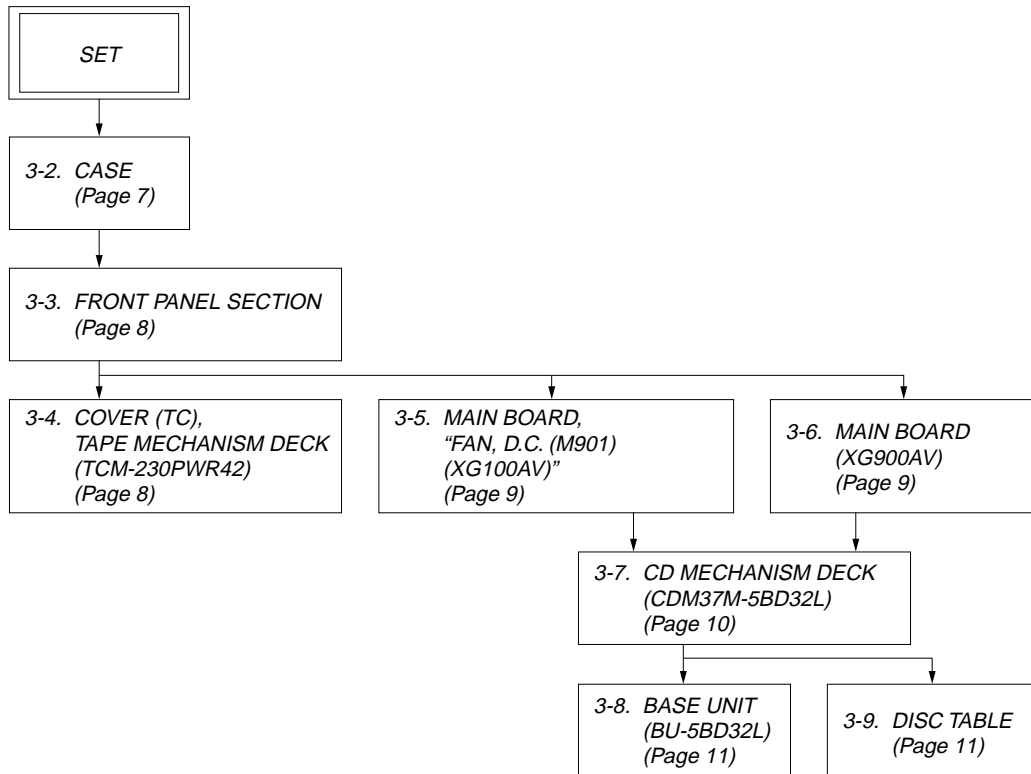
### Note

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

## SECTION 3 DISASSEMBLY

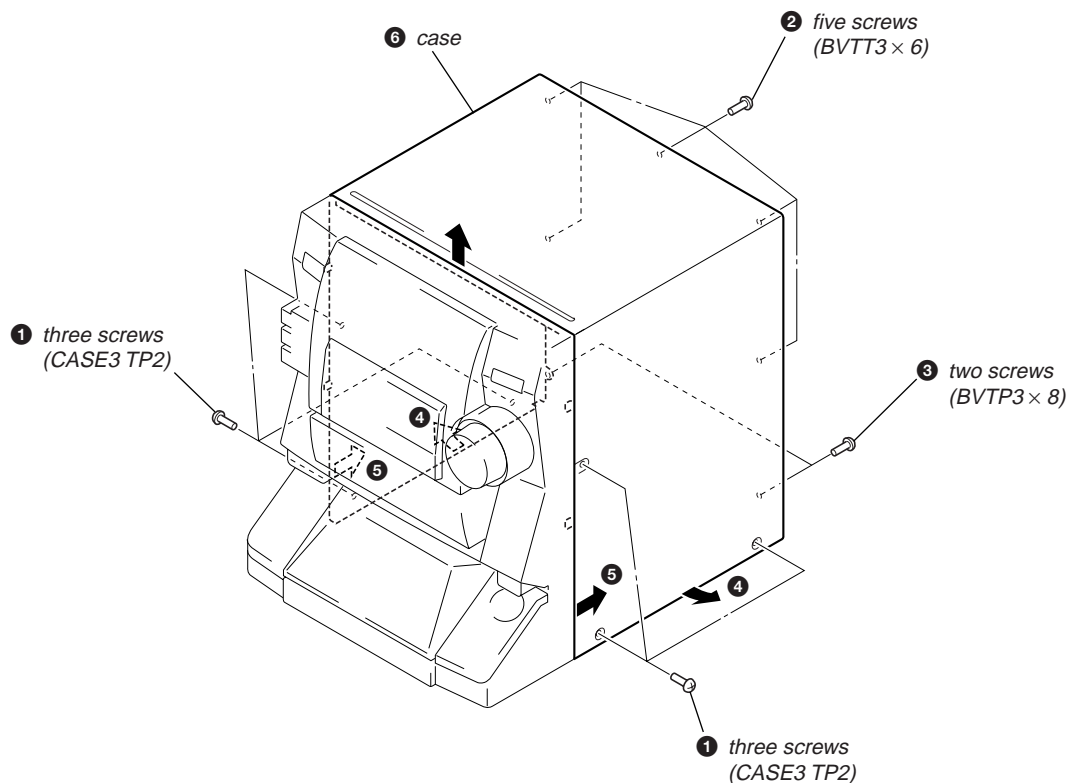
• This set can be disassembled in the order shown below.

### 3-1. DISASSEMBLY FLOW

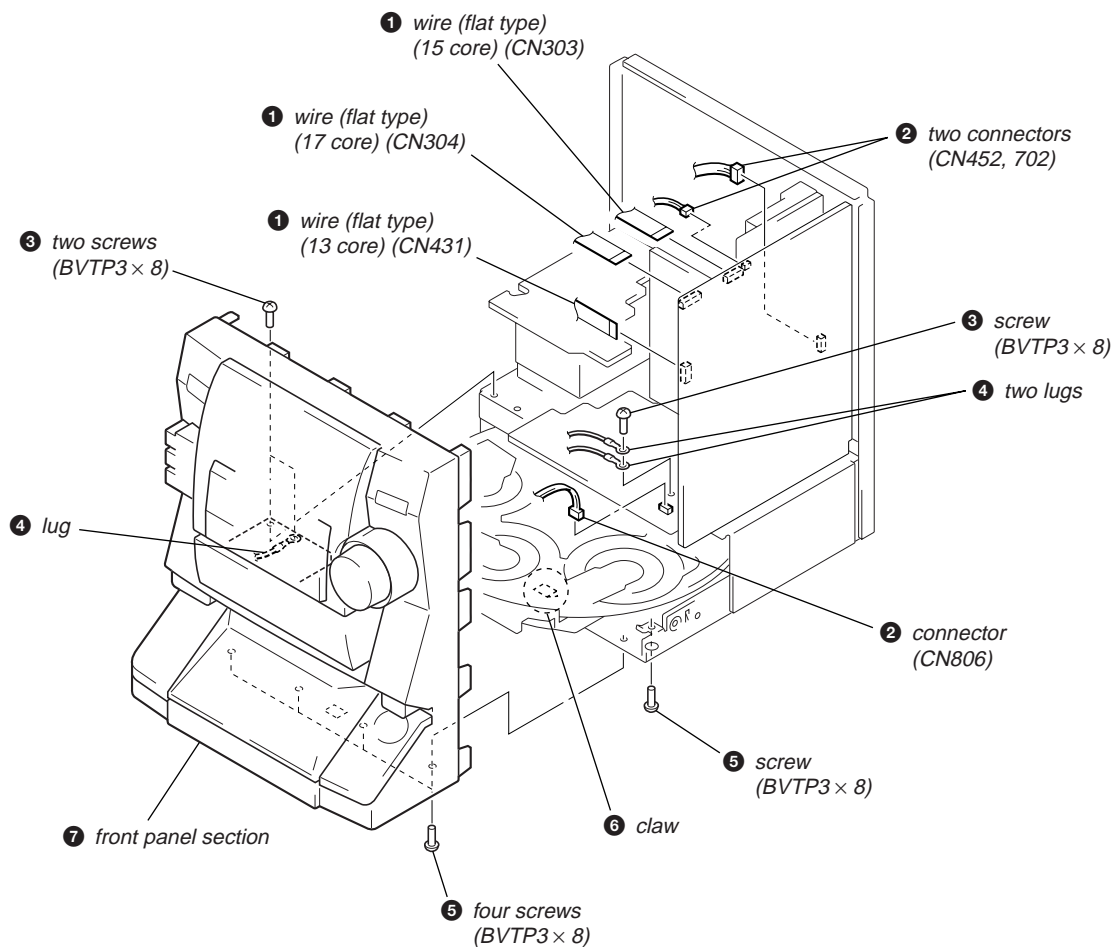


**Note:** Follow the disassembly procedure in the numerical order given.

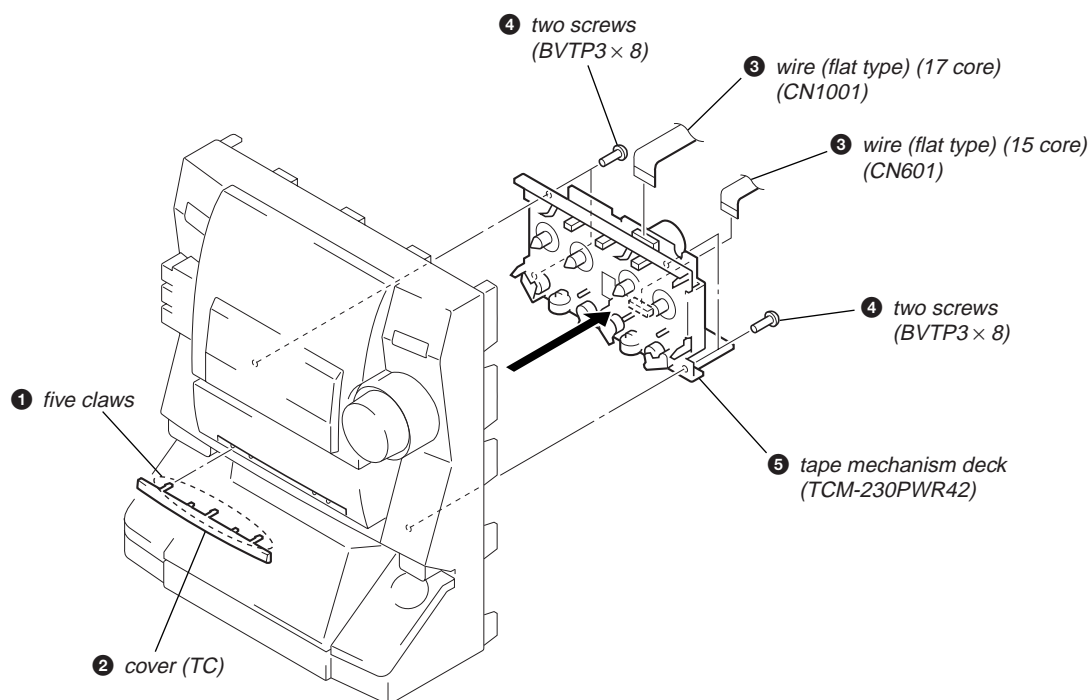
### 3-2. CASE



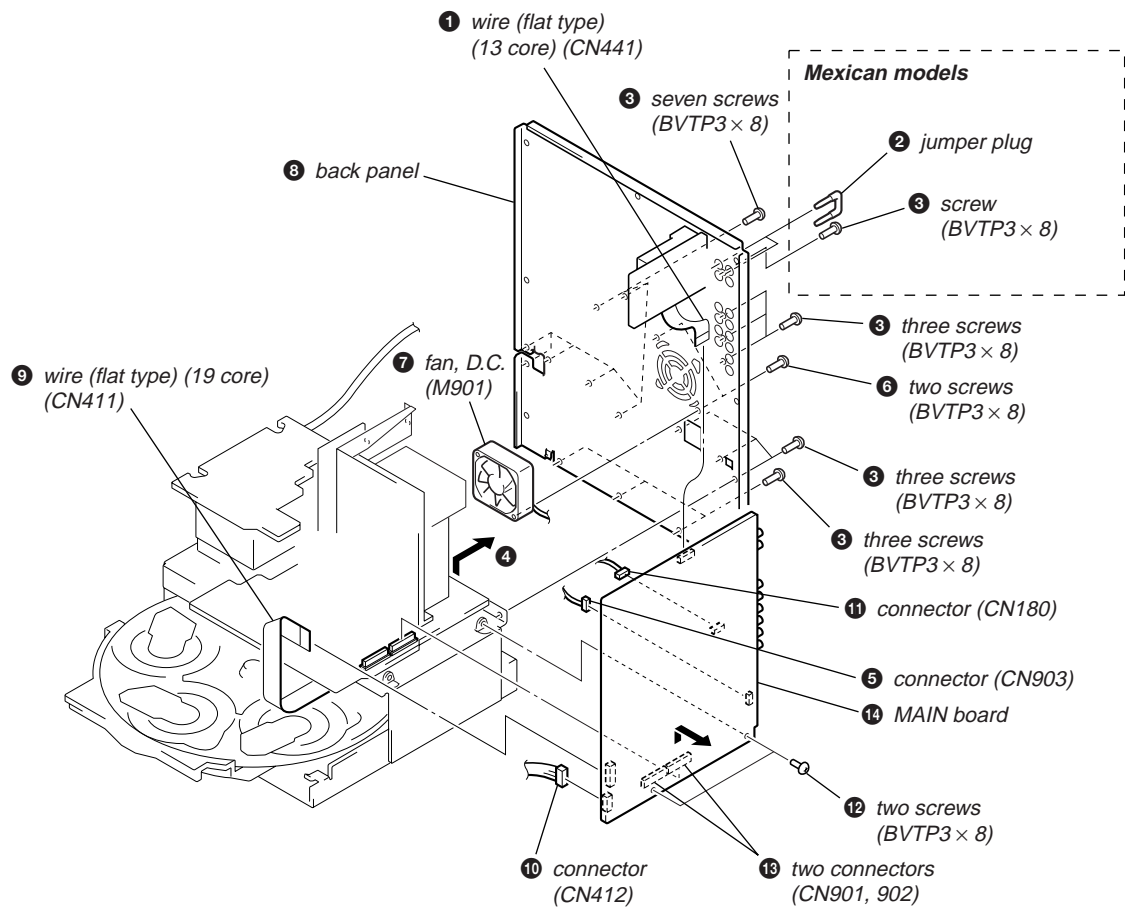
## 3-3. FRONT PANEL SECTION



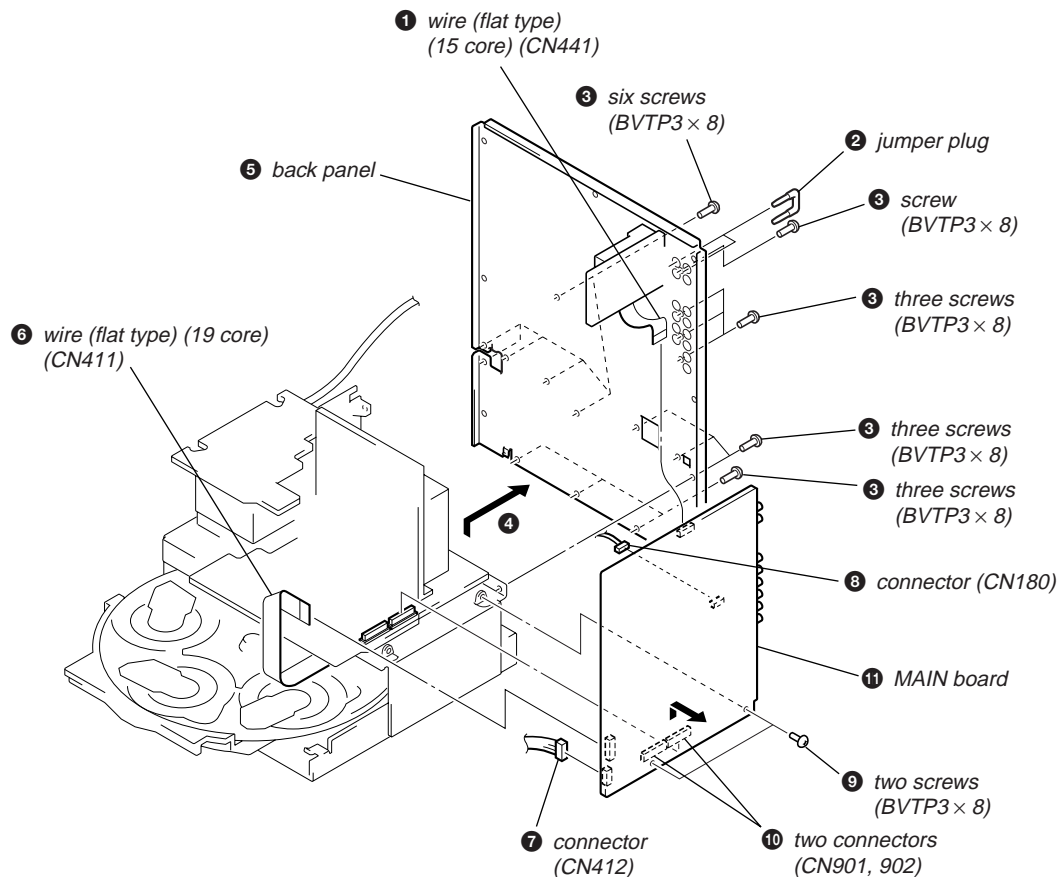
## 3-4. COVER (TC), TAPE MECHANISM DECK (TCM-230PWR42)



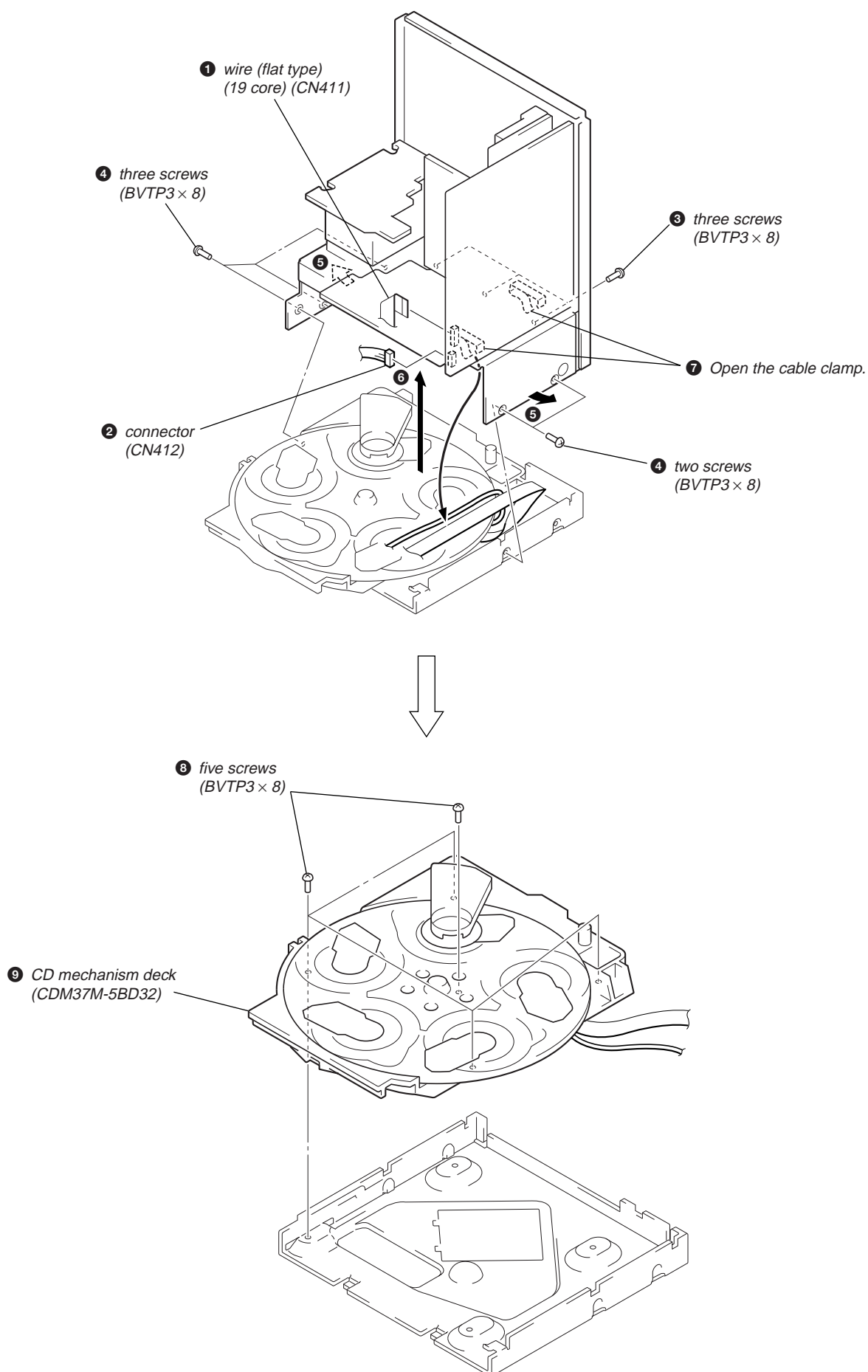
## 3-5. MAIN BOARD, "FAN, D.C. (M901) (XG100AV)"



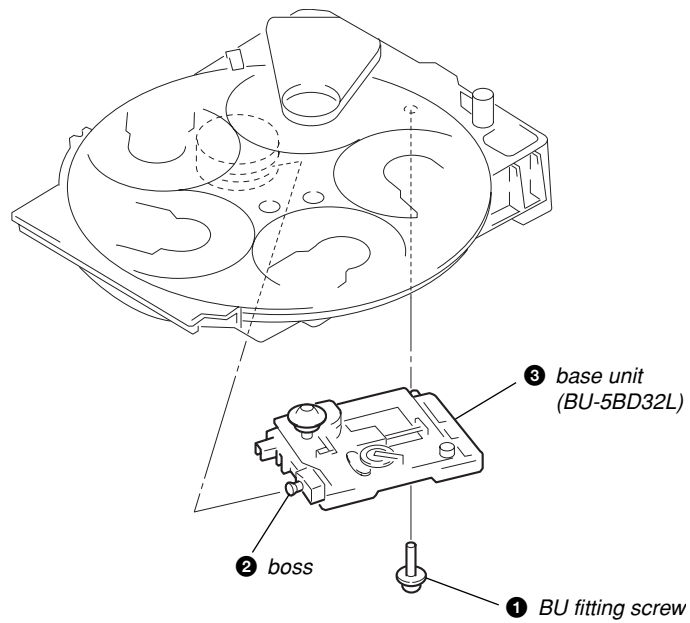
## 3-6. MAIN BOARD (XG900AV)



## 3-7. CD MECHANISM DECK (CDM37M-5BD32L)

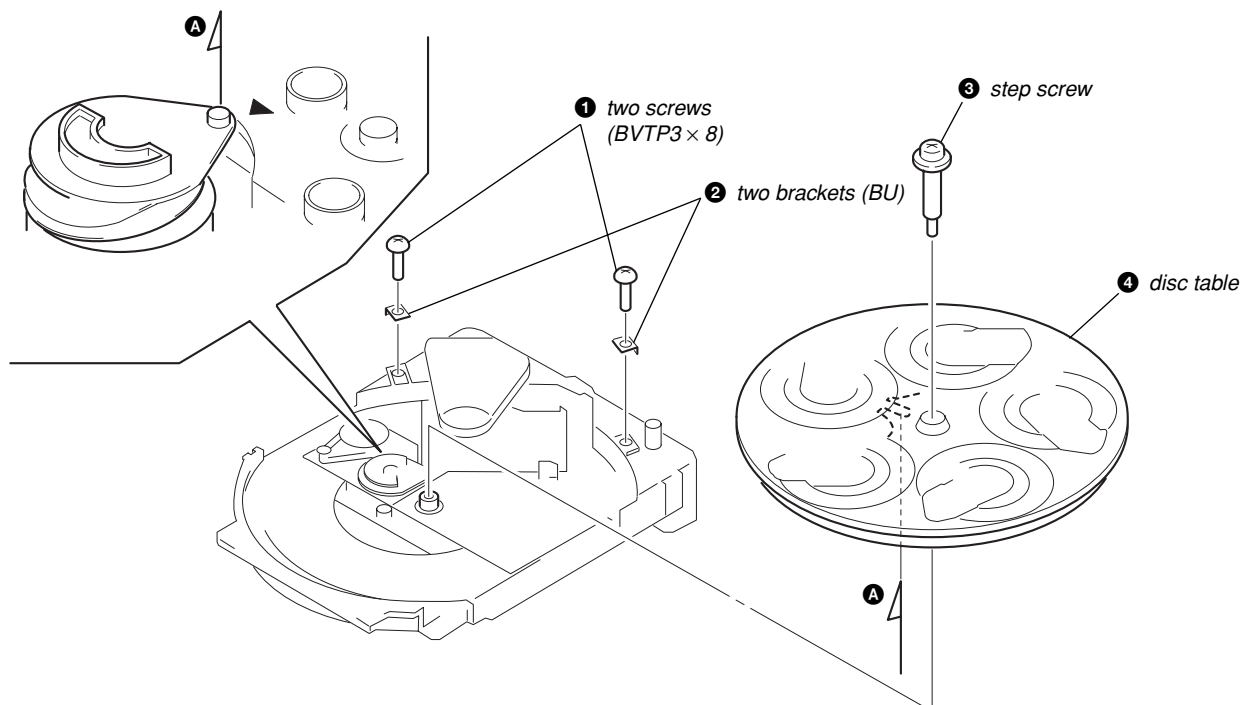


### 3-8. BASE UNIT (BU-5BD32L)



### 3-9. DISC TABLE

*Note: When the disc table is installed, adjust the positions of roller cam and mark ► as shown in the figure, then set to the groove of disc table.*



## SECTION 4

### TEST MODE

#### [MC Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

##### Procedure:

- Turn the power ON or set to the DEMO mode.
- Press three buttons of **[⏻/CLOCK SET]**, **[ENTER/NEXT]**, and **[I/⏻]** simultaneously.
- The set is reset, and displays "COLD RESET", then becomes DEMO mode.

#### [MC Hot Reset]

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

##### Procedure:

- Turn the power ON or set to the DEMO mode.
- Press three buttons of **[⏻/CLOCK SET]**, **[ENTER/NEXT]**, and **[DISC 1]** simultaneously.
- The set is reset, and becomes standby state.

#### [Change-over the AM Tuning Interval] (EXCEPT AEP, UK, and Saudi Arabia models)

- The AM tuning interval can be changed over 9 kHz or 10 kHz.

##### Procedure:

- Press the **[I/⏻]** button to turn the power ON.
- Select the function "TUNER", and press the **[TUNER/BAND]** button to select the BAND "AM".
- Press the **[I/⏻]** button to turn the power OFF.
- Press the **[ENTER/NEXT]** and **[I/⏻]** buttons simultaneously, and the display on the fluorescent indicator tube changes to "AM 9 K STEP" or "AM 10 K STEP", and thus the tuning interval is changed over.

#### [CD Delivery Mode]

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

##### Procedure:

- Press the **[I/⏻]** button to turn the power ON.
- Press the **[LOOP]** and **[I/⏻]** buttons simultaneously.
- A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

#### [LED and Fluorescent Indicator Tube All Lit, Key Check Mode]

##### Procedure:

- Press three buttons of **[⏻/CLOCK SET]**, **[ENTER/NEXT]**, and **[DISC 2]** simultaneously.
- LEDs and fluorescent indicator tube are all turned on. Press the **[DISC 2]** button, and the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "K 0 J0 V0". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account.  
"J" value increases like 1, 2, 3 ... if turn the JOG dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.  
"V" value increases like 1, 2, 3 ... if turn the **[VOLUME]** dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.
- To release from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

**[Aging Mode]**

This mode can be used for operation check of tape deck section. Tape deck section work in parallel.

- If an error occurred:  
The aging operation stops and display then status.
- If no error occurs:  
The aging operation continues repeatedly.

**Procedure:**

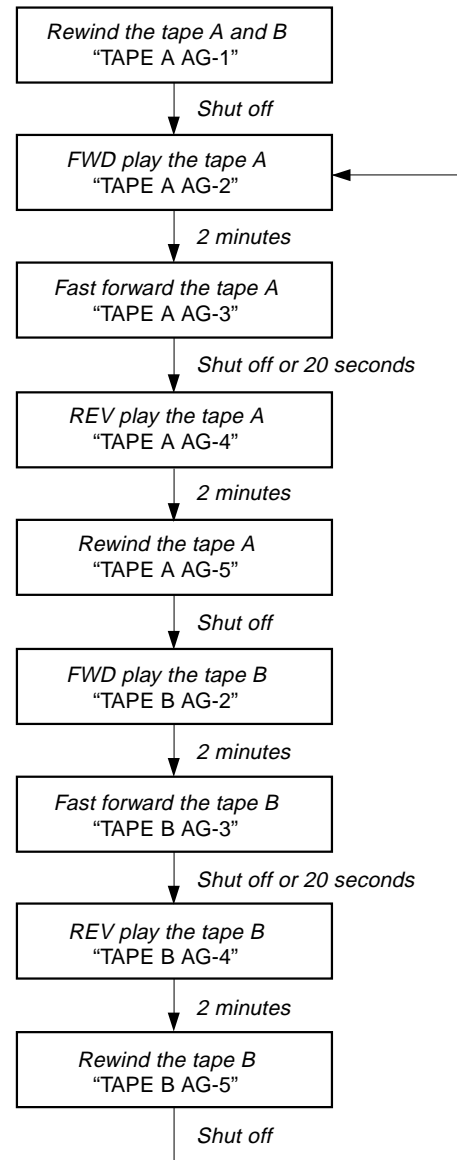
1. Load the tapes into the decks A and B respectively.
2. Press the **[FUNCTION]** button to select the function "CD".
3. Press the **[PLAY MODE]** button to set the "ALL DISCS" mode, and press the **[REPEAT]** button to "REPEAT" off.
4. Press three buttons of **[⌚/CLOCK SET]**, **[ENTER/NEXT]**, and **[DISC 4]** simultaneously.
5. The aging mode is activated, if the indicator of disc tray number on the fluorescent indicator tube is blinking.
6. To release from the aging mode, press the **[I/⏻]** button to turn the power OFF and operate the cold reset. (Refer to the "MC Cold Reset")

**1. Display at the Aging Mode**

- Display operating state of tape deck section alternately.
- If an error occurred, stop display.

**2. Tape Deck Section**

- The sequence during the aging mode is following as below.
- If an error occurred, stop display that step.

**Aging mode sequence (Tape deck section) :**

**Note:** "TAPE \* AG-\*" is display of each step.

# HCD-XG100AV/XG900AV

## SECTION 5

### MECHANICAL ADJUSTMENTS

#### Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
  - record/playback heads pinch rollers
  - erase head rubber belts
  - capstan idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

#### Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	3.1 to 6.96 mN•m (31 to 71 g•cm) (0.43 – 0.98 oz•inch)
FWD back tension	CQ-102C	0.20 to 0.58 mN•m (2 to 6 g•cm) (0.03 – 0.08 oz•inch)
REV	CQ-102RC	3.1 to 6.96 mN•m (31 to 71 g•cm) (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.20 to 0.58 mN•m (2 to 6 g•cm) (0.03 – 0.08 oz • inch)
FF/REW	CQ-201B	6.97 to 14.02 mN•m (71 to 143 g•cm) (0.99 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 mN•m (100 g or more) (3.53 oz or more)
REV tension	CQ-403A	9.80 mN•m (100 g or more) (3.53 oz or more)






## SECTION 6

### ELECTRICAL ADJUSTMENTS

#### DECK SECTION

0 dB = 0.775 V

#### Precaution

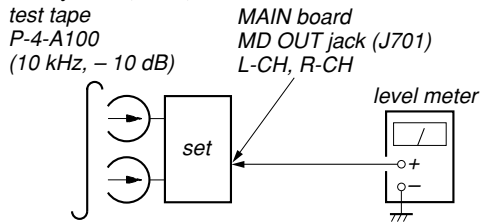
1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.
8. Set to the DOLBY NR OFF.
9. Set to the test mode.
  - (1) Press the  button to turn the power ON.
  - (2) Select the function "TAPE A or B".
  - (3) Press the button of  /CLOCK SET,  ENTER/NEXT, and  DISC 3 simultaneously, to set the tape deck test mode and displays "TEST MODE" on the fluorescent indicator tube.
  - (4) To release from the test mode, press the  button.

#### • Test Tape

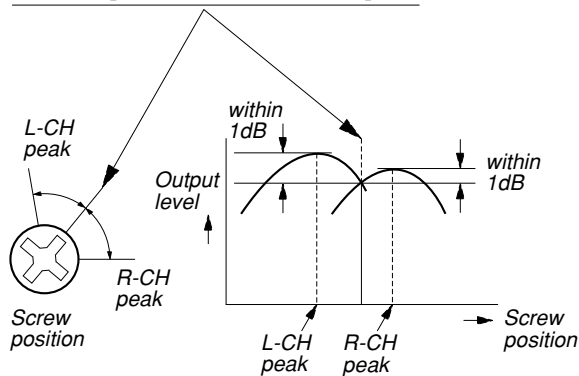
Tape	Signal	Used for
P-4-A100	10 kHz, – 10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Playback Level Adjustment

**Record/Playback Head Azimuth Adjustment****DECK A****DECK B****Note:** Perform this adjustments for both decks**Procedure:**

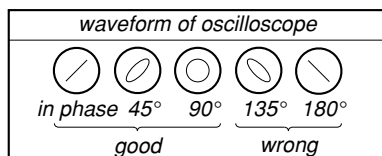
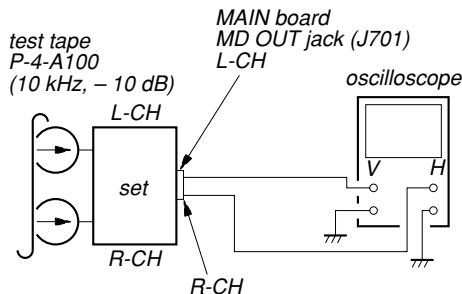
1. Mode: Playback (FWD)



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



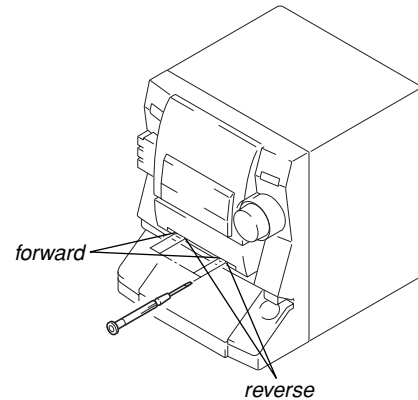
3. Mode: Playback



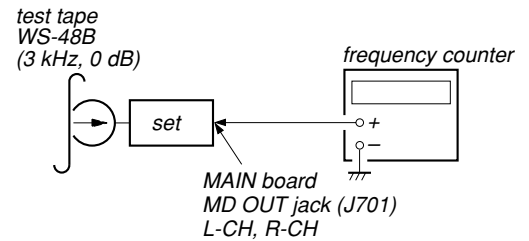
4. Repeat step 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the parts adjusted.

**Adjustment Location:** Playback Head (Deck A).

Record/Playback/Erase Head (Deck B).

**Tape Speed Adjustment****DECK B**

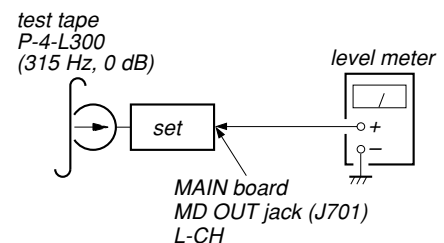
Mode: Playback



1. Insert the WS-48B into the deck B.
2. Press the button on the deck B.
3. Press the **[H SPEED DUB]** button in playback mode. Then at HIGH speed mode.
4. Adjust RV1001 on the LEAF SW board so that frequency counter reads  $6,000 \pm 180$  Hz.
5. Press the **[H SPEED DUB]** button. Then back to NORMAL speed mode.
6. Adjust RV1002 on the LEAF SW board so that frequency counter reads  $3,000 \pm 90$  Hz.

**Adjustment Location:** LEAF SW board**Sample value of Wow and Flutter:** 0.3% or less W.RMS (JIS)  
(WS-48B)**Playback Level Adjustment****DECK A****DECK B****Procedure:**

Mode: Playback



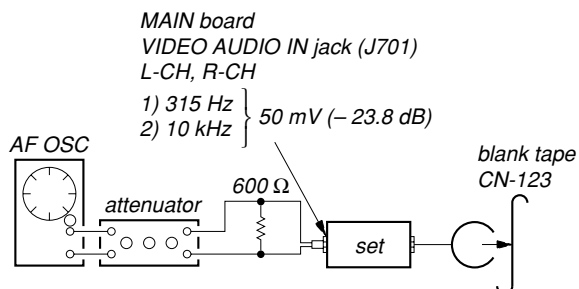
Deck A is RV311 (L-CH), Deck B is RV301 (L-CH) so that adjustment within specification values as follows.

**Specification Values:**J701 PB level: 301.5 to 338.3 mV (− 8.2 to − 7.2 dB) level  
difference between the channels: within  $\pm 0.5$  dB**Adjustment Location:** AUDIO board

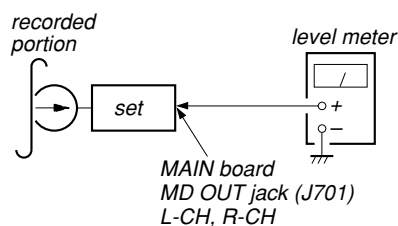
## REC Bias Adjustment **DECK B**

### Procedure:

- Mode: Record  
FUNCTION: VIDEO



- Mode: Playback



- Confirm playback the signal recorded in step 1 become specification values as follows.  
If these values are out of specification values, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1 and 2.

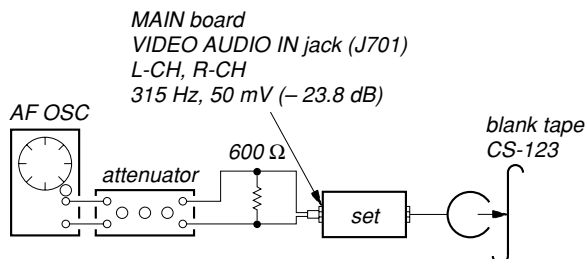
**Specification values:** Playback output of 315 Hz to playback output of 10 kHz:  $\pm 0.5$  dB

**Adjustment Location:** AUDIO board

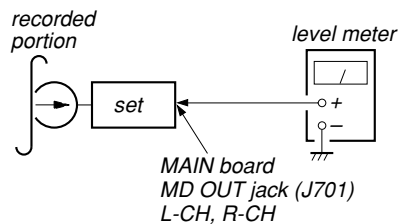
## REC Level Adjustment **DECK B**

### Procedure:

- Mode: Record  
FUNCTION: VIDEO



- Mode: Playback



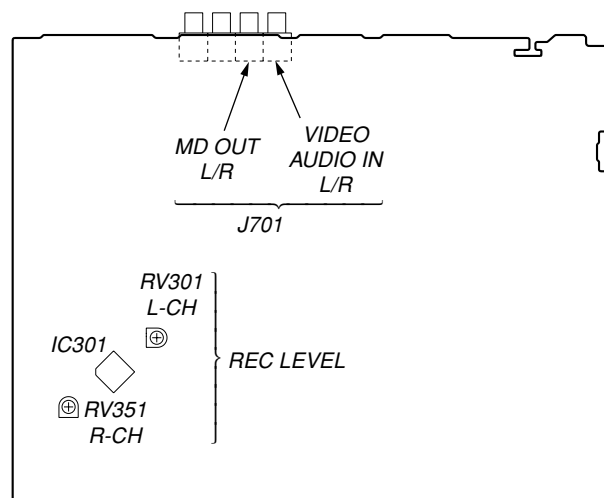
- Confirm playback the signal recorded in step 1 become specification values as follows.  
If these values are out of specification values, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 1 and 2.

### Specification values:

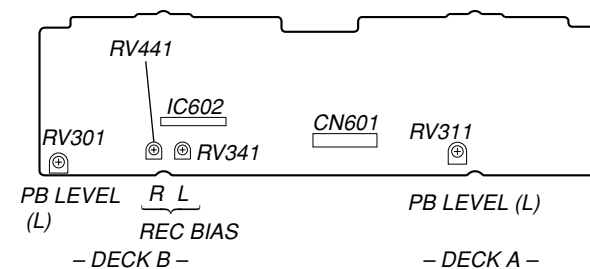
J701 PB level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

**Adjustment Location:** MAIN board

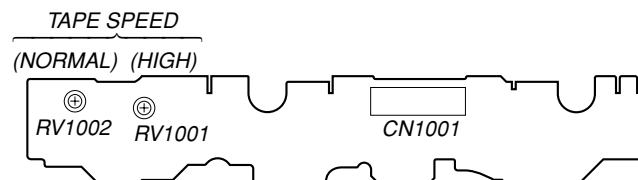
### - MAIN BOARD (Conductor Side) -



### - AUDIO BOARD (Component Side) -



### - LEAF SW BOARD (Component Side) -

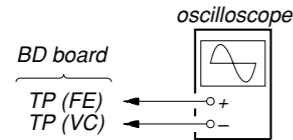


## CD SECTION

### Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

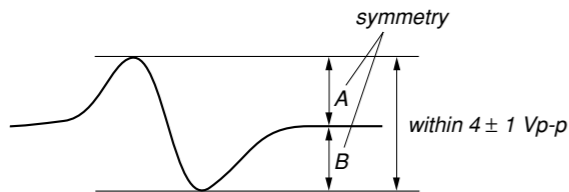
### S-Curve Check



### Procedure:

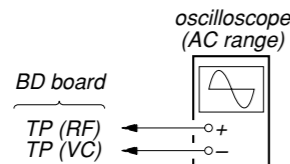
1. Connect oscilloscope to TP (FE) and TP (VC).
2. Connect between TP (FE1) and TP (VC) by lead wire.
3. Connect between TP (AGCCON) and TP (GND) by lead wire.
4. Turn the power ON.
5. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
6. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within  $4 \pm 1$  Vp-p.

### S-curve waveform



7. After check, remove the lead wire connected in step 2 and 3.
- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
  - Take sweep time as long as possible and light up the brightness to obtain best waveform.

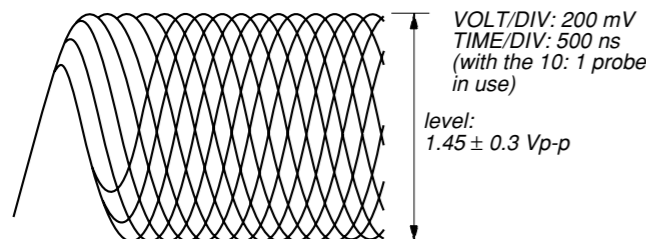
### RF Level Check



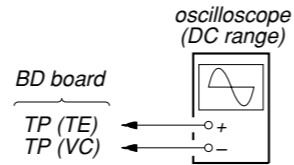
### Procedure:

1. Connect oscilloscope to TP (RF) and TP (VC).
2. Connect between TP (AGCCON) and TP (GND) by lead wire.
3. Turn the power ON.
4. Load a disc (YEDS-18) and press the button to play.
5. Confirm that the oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

**Note:** Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.



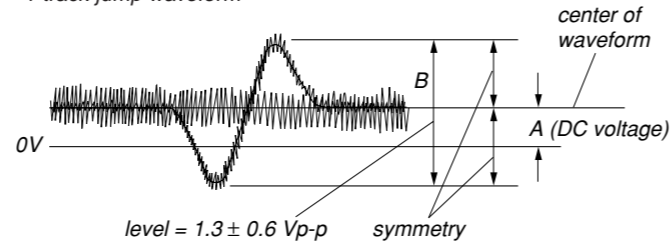
### E-F Balance (1 Track Jump) Check



### Procedure :

1. Connect oscilloscope to TP (TE) and TP (VC).
2. Turn the power ON.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the button. (Becomes the 1 track jump mode)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

### 1 track jump waveform

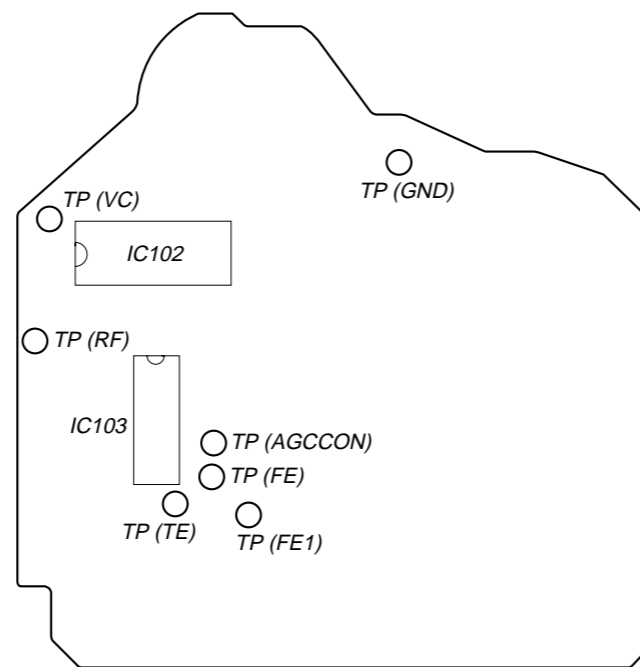


**Specified level:**  $\frac{A}{B} \times 100 = \text{less than } \pm 22\%$

6. After check, remove the lead wire connected in step 1.

### Checking Location:

#### – BD BOARD (Side B) –



The diagram illustrates the internal circuitry of a CD player, organized into several functional blocks:

- Optical Pickup Section:** Includes the DETECTOR, LASER DIODE, and OPTICAL PICK-UP BLOCK (KSS-213DH). It shows the initial signal pickup and power control (APC LD AMP, APC PD AMP).
- RF and Error Amplification:** The RF AMP, FOCUS/TRACKING ERROR AMP (IC103), and FOCUS/TRACKING COIL DRIVE, SPINDLE/SLED MOTOR DRIVE (IC102) handle the initial signal amplification and motor control.
- Digital Signal Processor (IC101 1/2):** The central processing unit containing a DIGITAL PLL, EFM DEMODULATOR, INTERNAL BUS, D/A INTERFACE, and various control logic blocks like the CPU INTERFACE and SERVO AUTO SEQUENCER.
- Digital Servo Processor (IC101 2/2):** Manages the servo control, including the A/D CONVERTER, FOCUS/TRACKING/SLED SERVO DSP, and MIRR/DFCT/FOK DETECTOR.
- System Controller (IC501 1/5):** Coordinates the overall system, including the TABLE MOTOR DRIVER (IC201) and the DISC TABLE SENSOR (IC202).
- Output and Interface:** Includes the SERIAL IN INTERFACE, DIGITAL FILTER, NOISE SHAPER, PWM & INTEGRATOR, and the CD DIGITAL OUT OPTICAL (IC781).

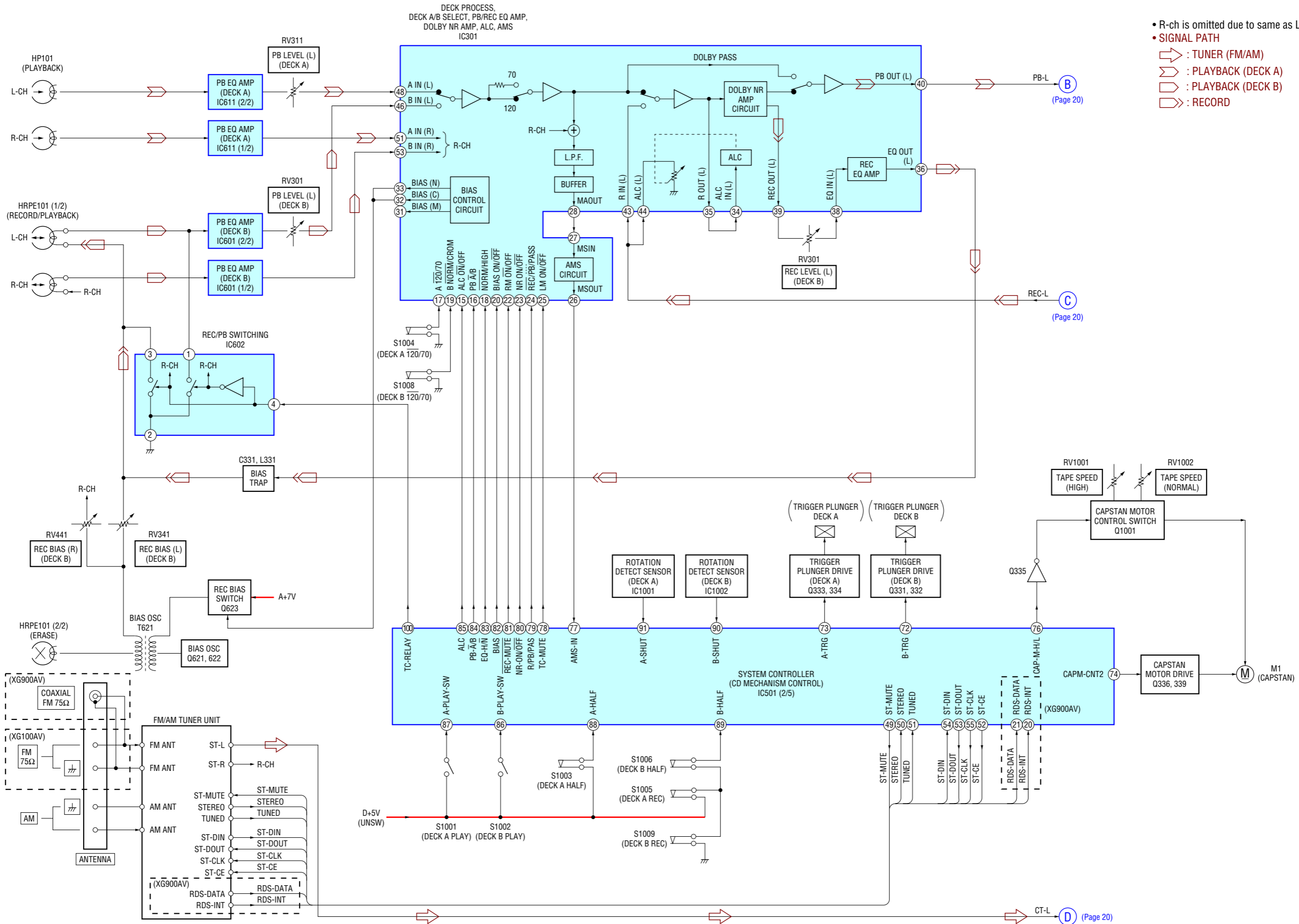
**Signal Path Legend:**

- Red arrows: CD PLAY (ANALOG OUT)
- Blue arrows: CD PLAY (DIGITAL OUT)

**Notes:**

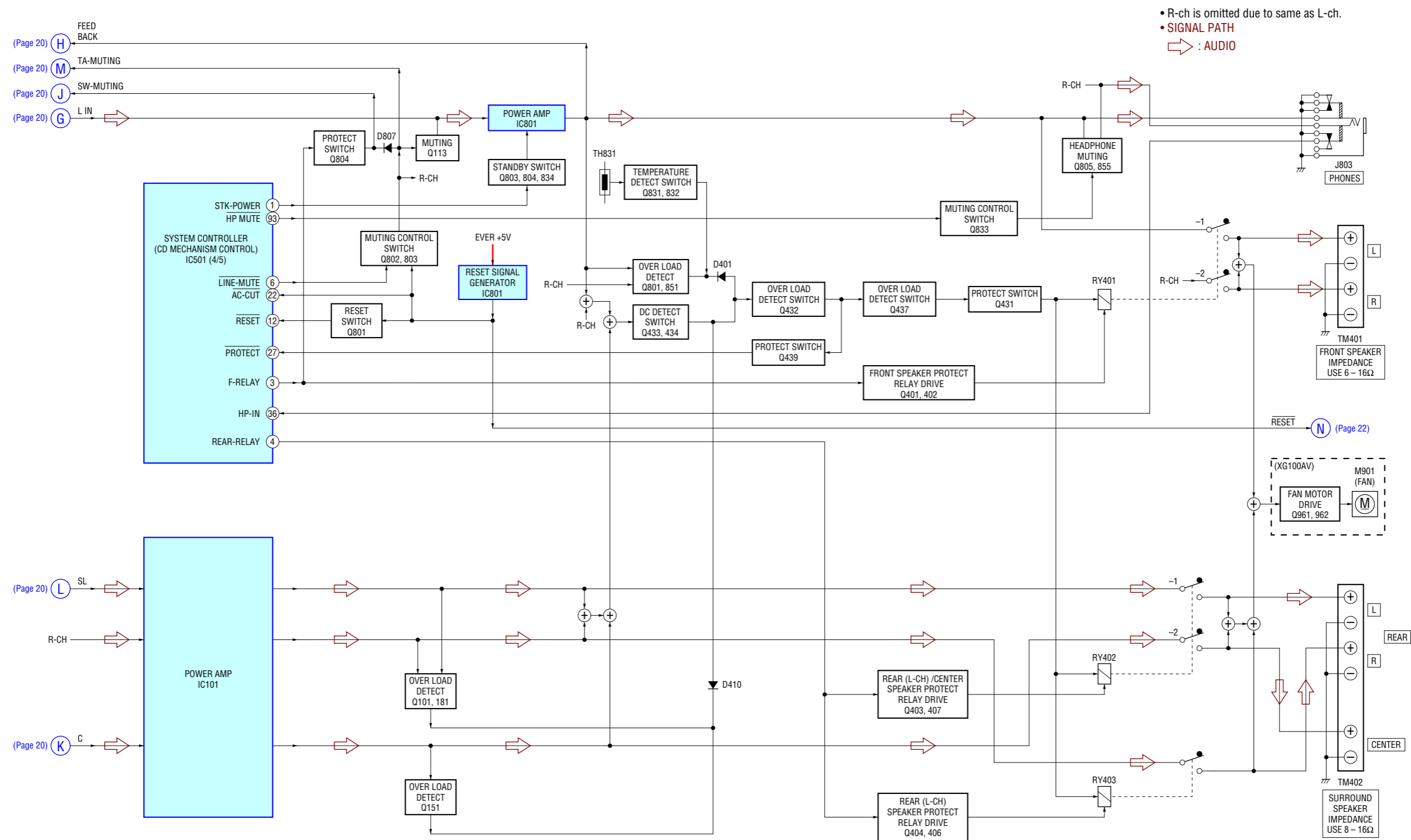
- R-ch is omitted due to same as L-ch.
- (EXCEPT AEP, UK, Mexican)
- (ON : When the optical pick-up is inner position.)

7-2. BLOCK DIAGRAM – TUNER/TAPE DECK Section –

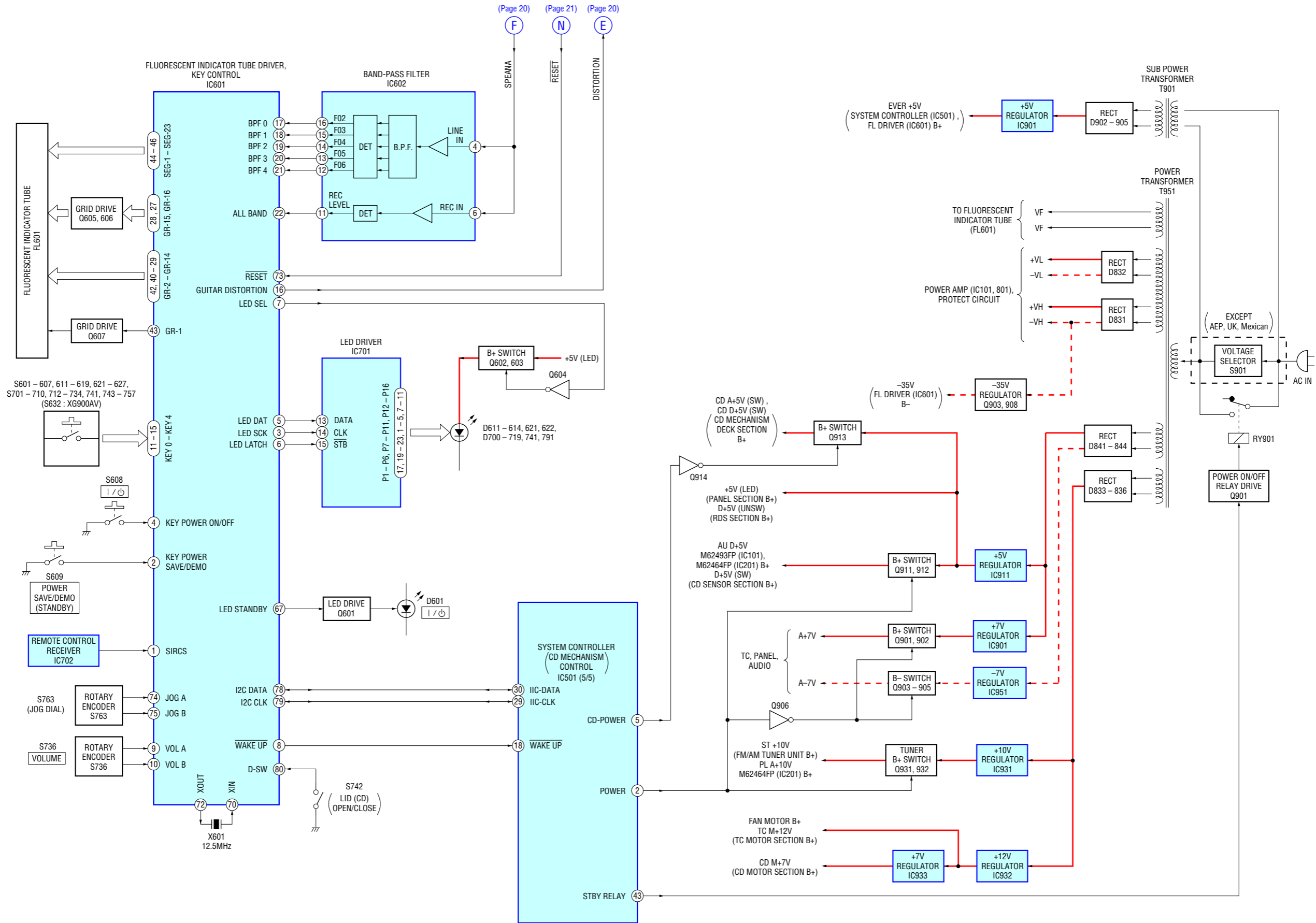




7-4. BLOCK DIAGRAM – MAIN Section (2/2) –



7-5. BLOCK DIAGRAM – DISPLAY/KEY CONTROL/POWER SUPPLY Section –



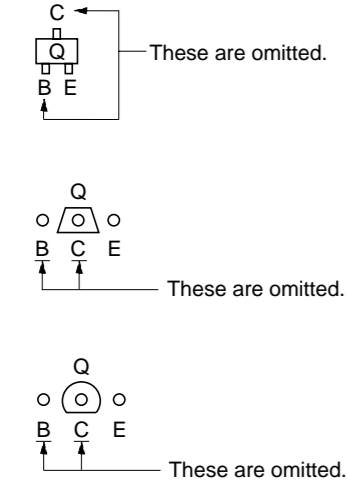
7-6. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- — : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Pattern from the side which enables seeing.  
(The other layers' patterns are not indicated.)

Caution:  
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.  
(Side B)  
Parts face side: Parts on the parts face side seen from the parts face are indicated.  
(Side A)

- Indication of transistor.



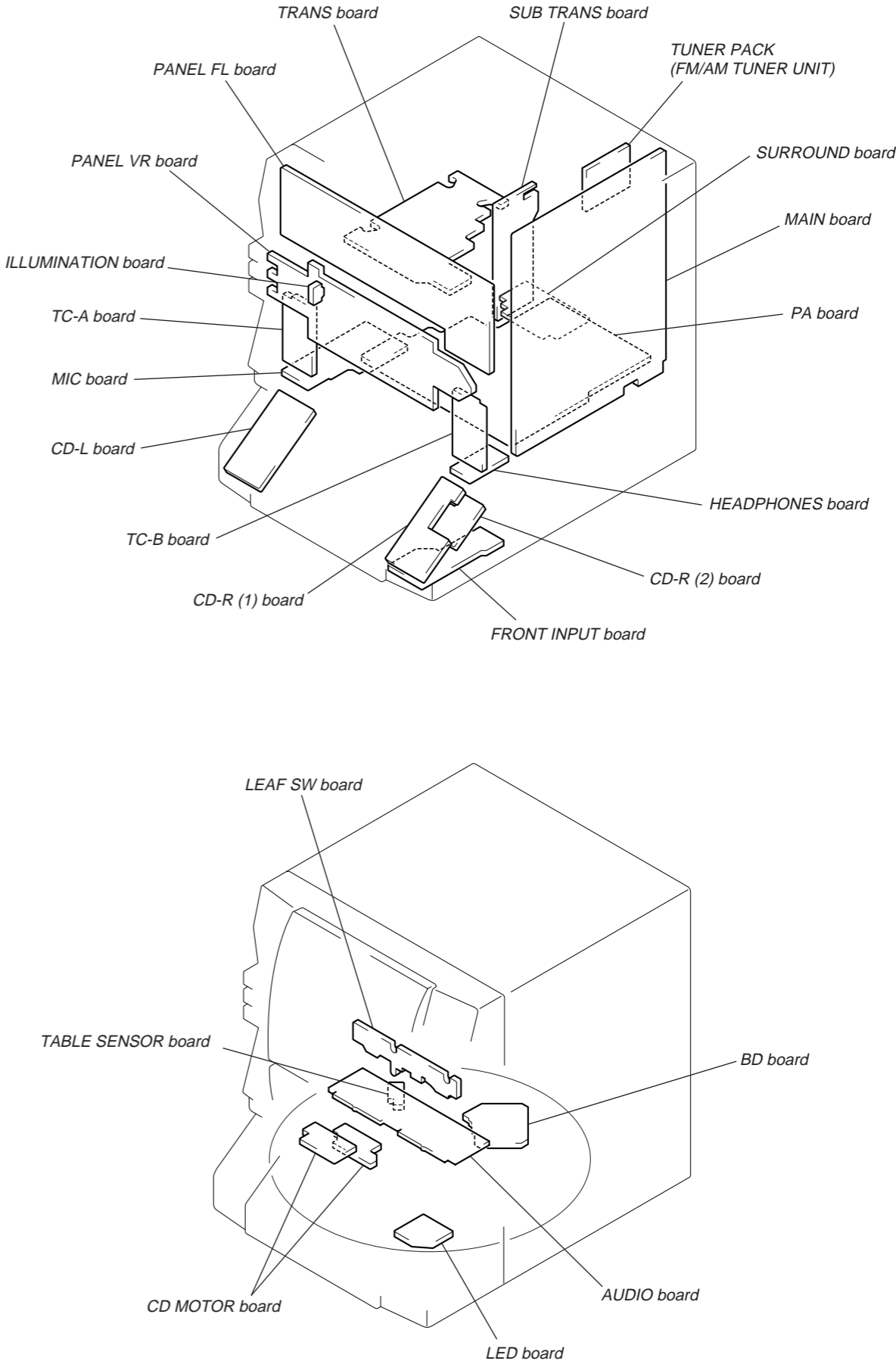
Note on Schematic Diagram:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

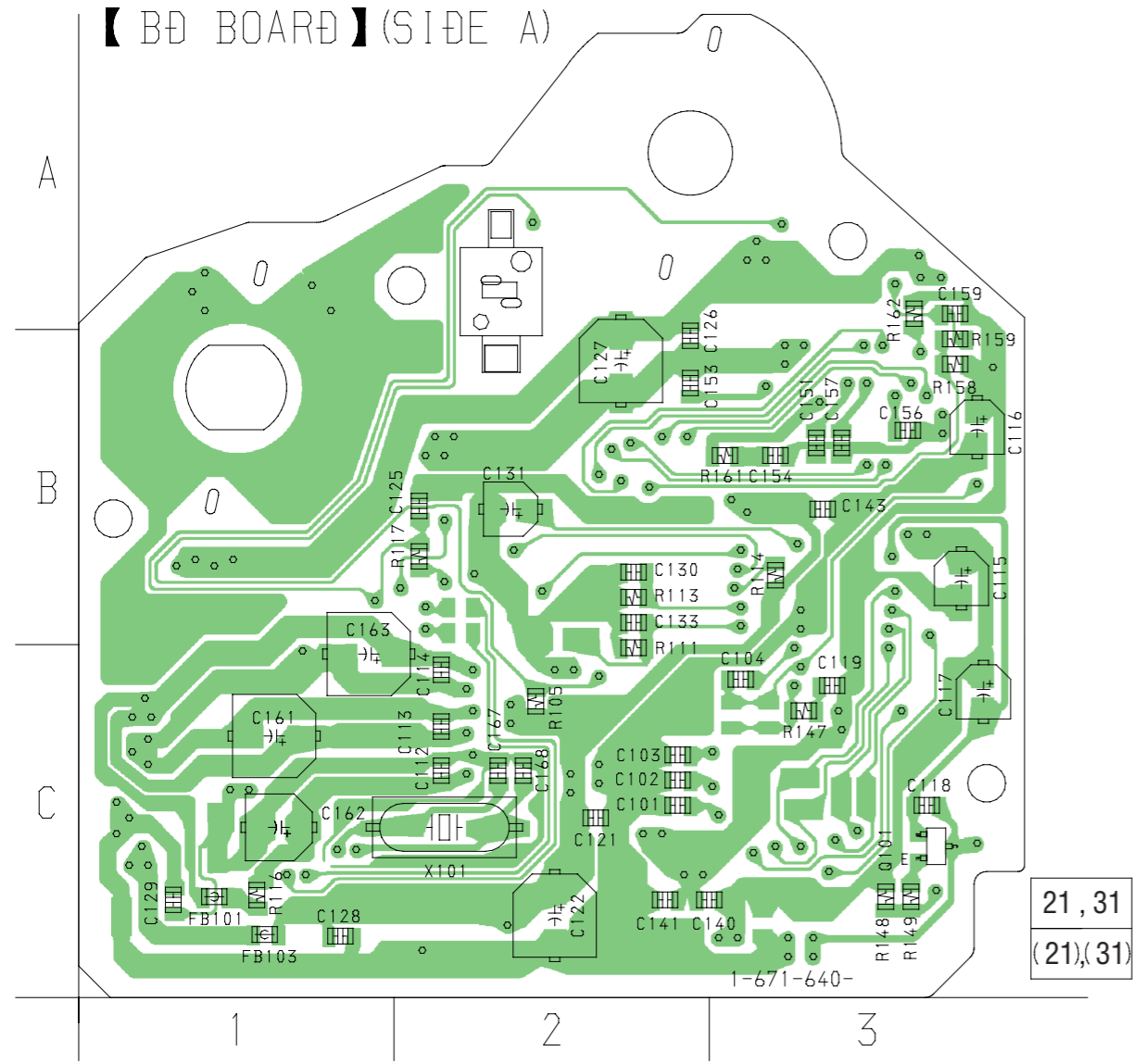
Note: The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

- : B+ Line.
- : B- Line.
- : adjustment for repair.
- Voltages are taken with a VOM (Input impedance  $10\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ➡ : TUNER (FM/AM)
  - ➡ : TAPE PLAY (DECK A)
  - ➡ : TAPE PLAY (DECK B)
  - ➡ : RECORD
  - ➡ : CD PLAY (ANALOG OUT)
  - ➡ : CD PLAY (DEGITAL OUT)
  - ➡ : MIC INPUT
- Abbreviation
  - AR : Argentina model
  - AUS : Australian model
  - E2 : 120 V AC area in E model
  - EA : Saudi Arabia model
  - MX : Mexican model
  - SP : Singapore model

• Circuit Boards Location

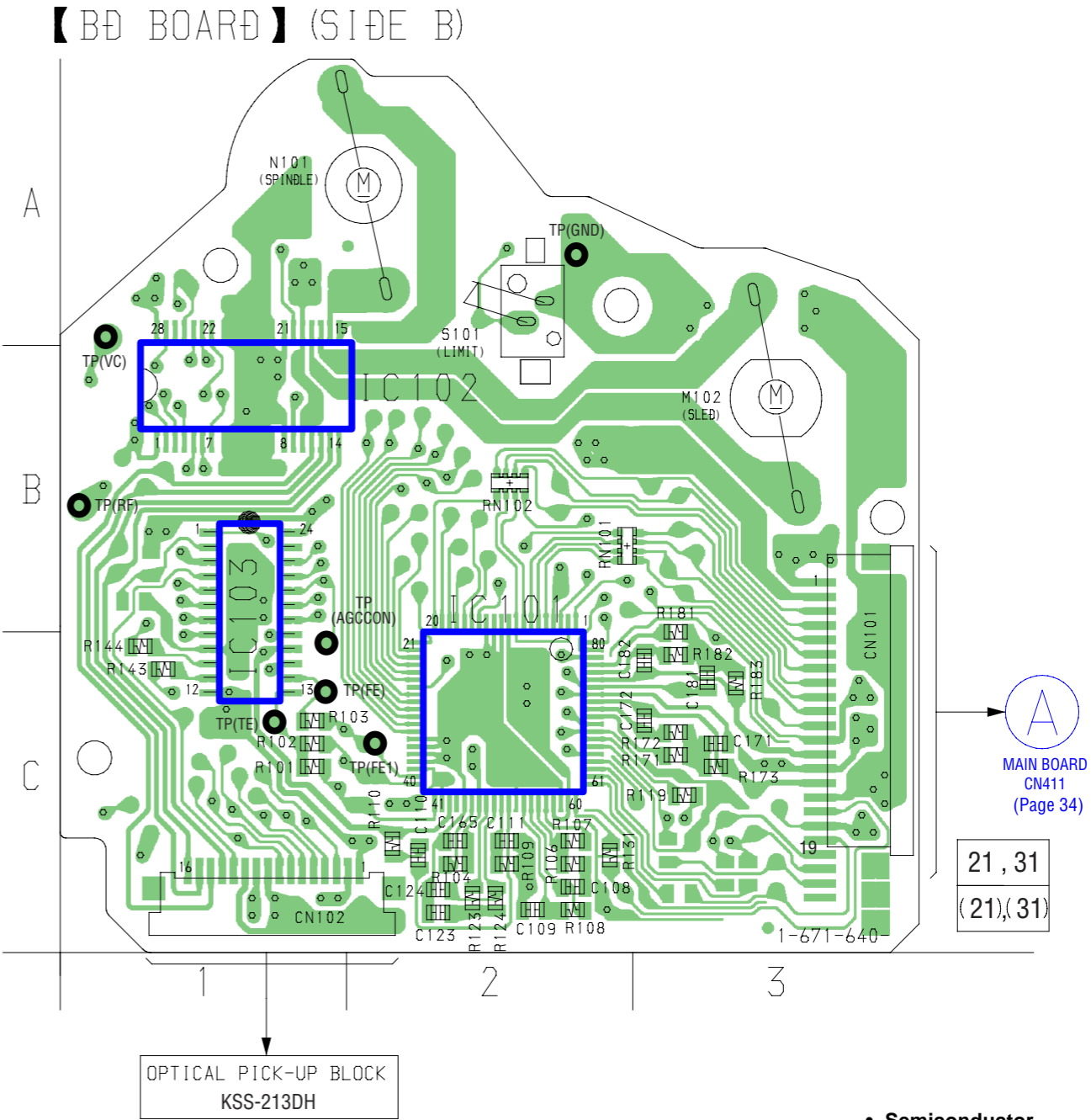


7-7. PRINTED WIRING BOARD – BD Board – • See page 23 for Circuit Boards Location.



• Semiconductor Location

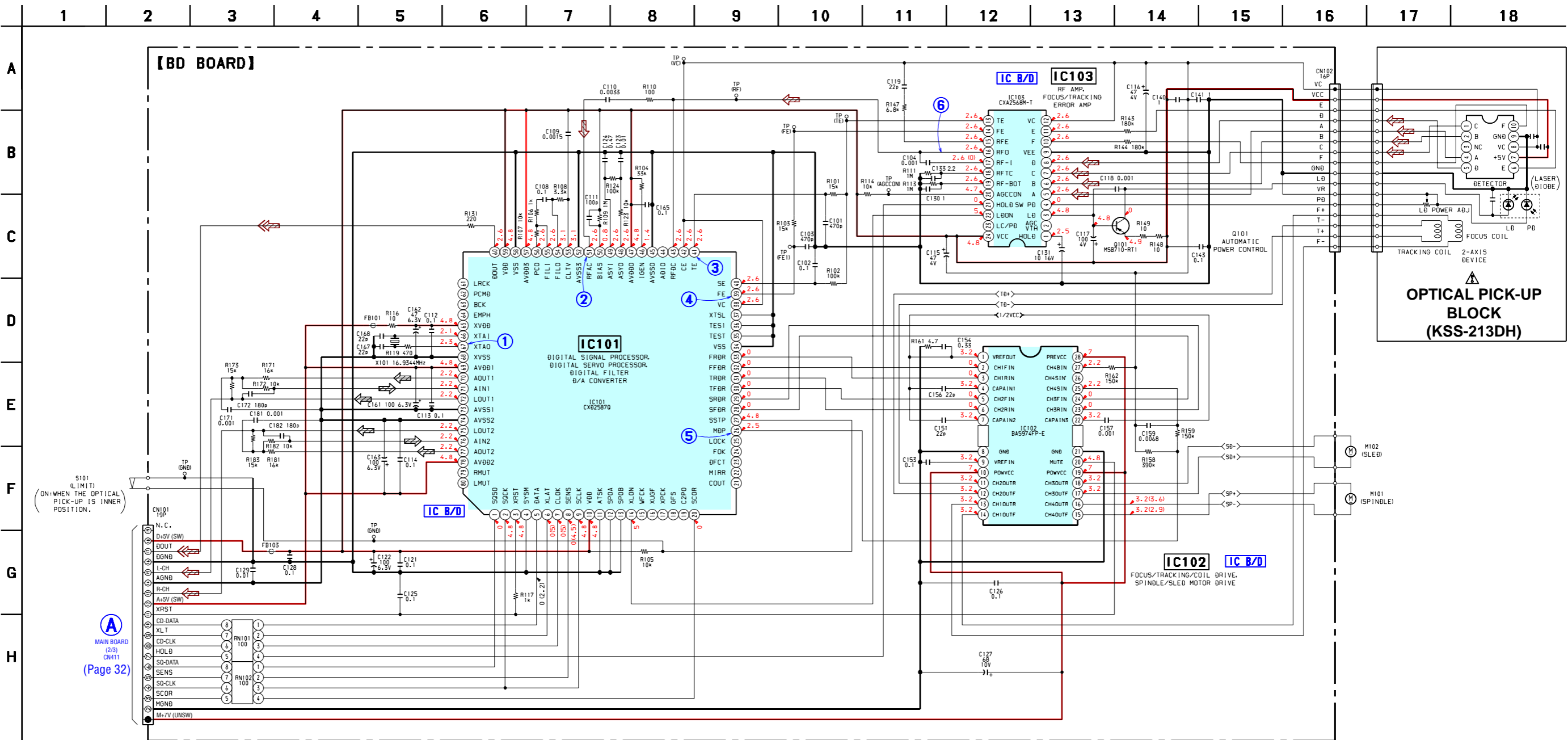
Ref. No.	Location
Q101	C-3



• Semiconductor Location

Ref. No.	Location
IC101	C-2
IC102	B-1
IC103	B-1

7-8. SCHEMATIC DIAGRAM – BD Board – • See page 35 for Waveforms. • See page 49 for IC Block Diagrams.

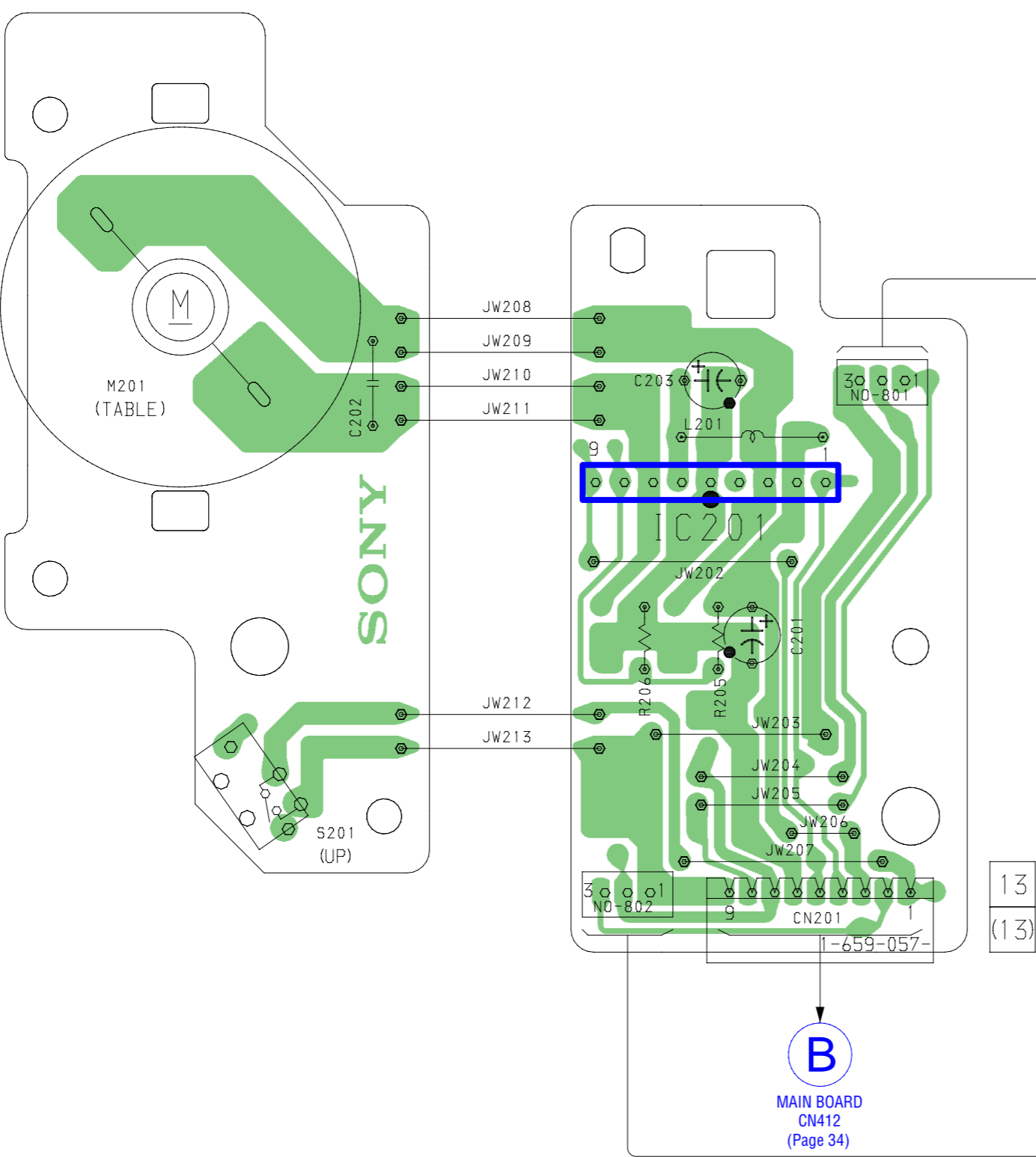


• Voltages and waveforms are dc with respect to ground under no-signal conditions.  
no mark : CD STOP  
( ) : CD PLAY

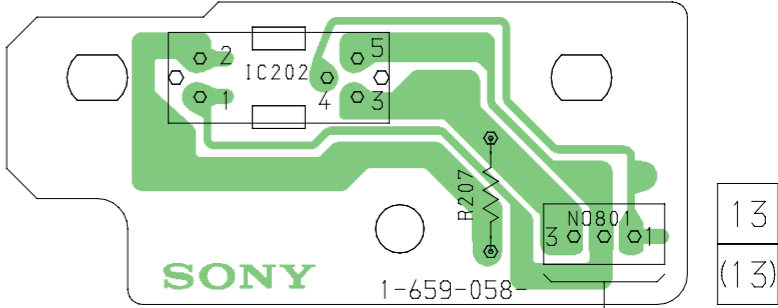
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

7-9. PRINTED WIRING BOARDS – CD MOTOR Section – • See page 23 for Circuit Boards Location.

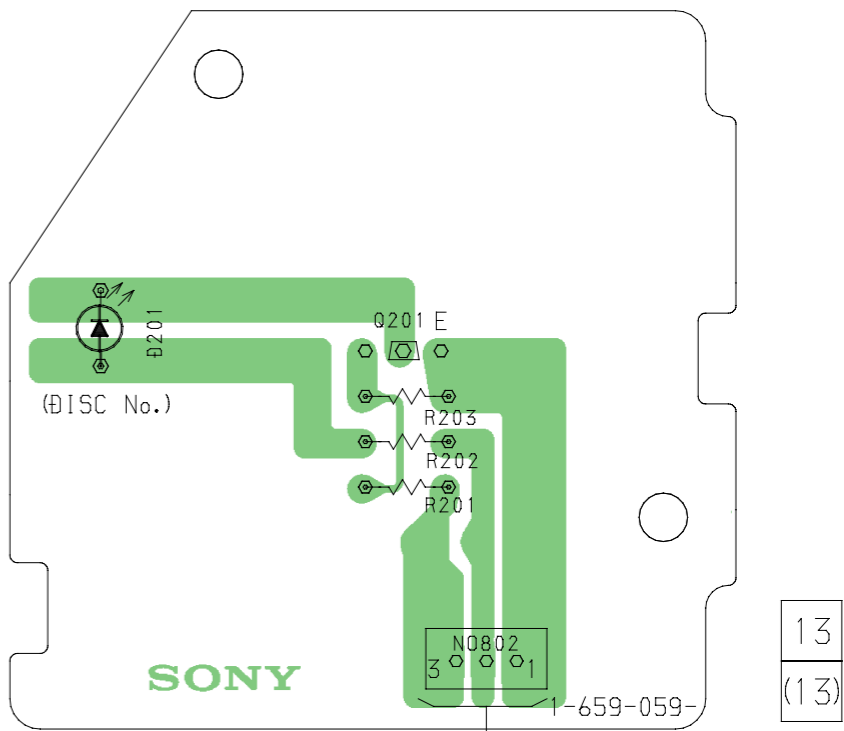
【CD MOTOR BOARD】



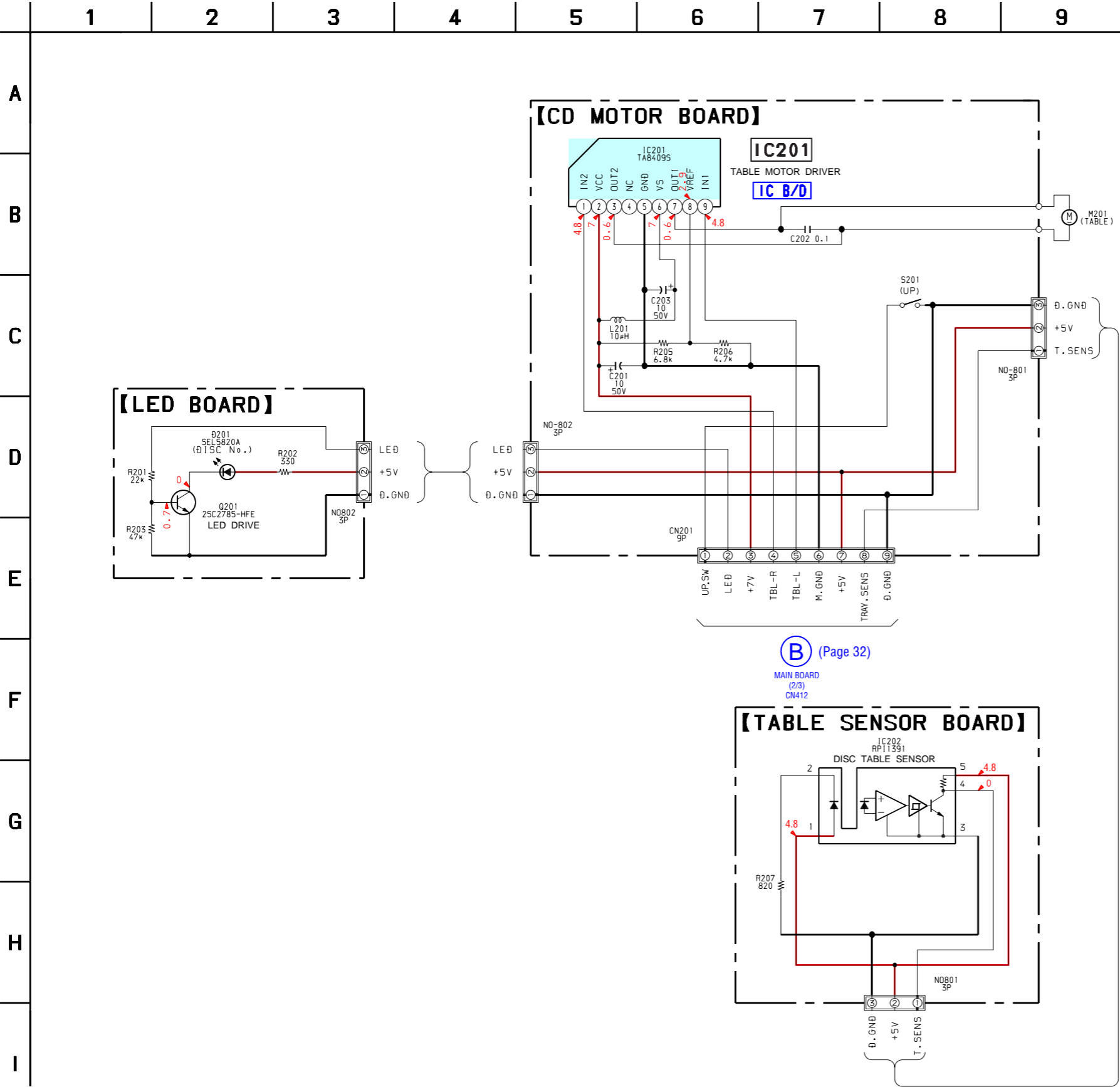
【TABLE SENSOR BOARD】



【LED BOARD】



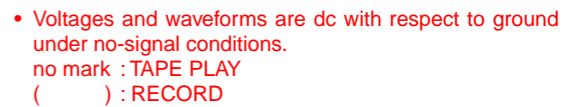
7-10. SCHEMATIC DIAGRAM – CD MOTOR Section – • See page 49 for IC Block Diagram.



• Voltages and waveforms are dc with respect to ground under no-signal conditions.  
no mark : CD STOP

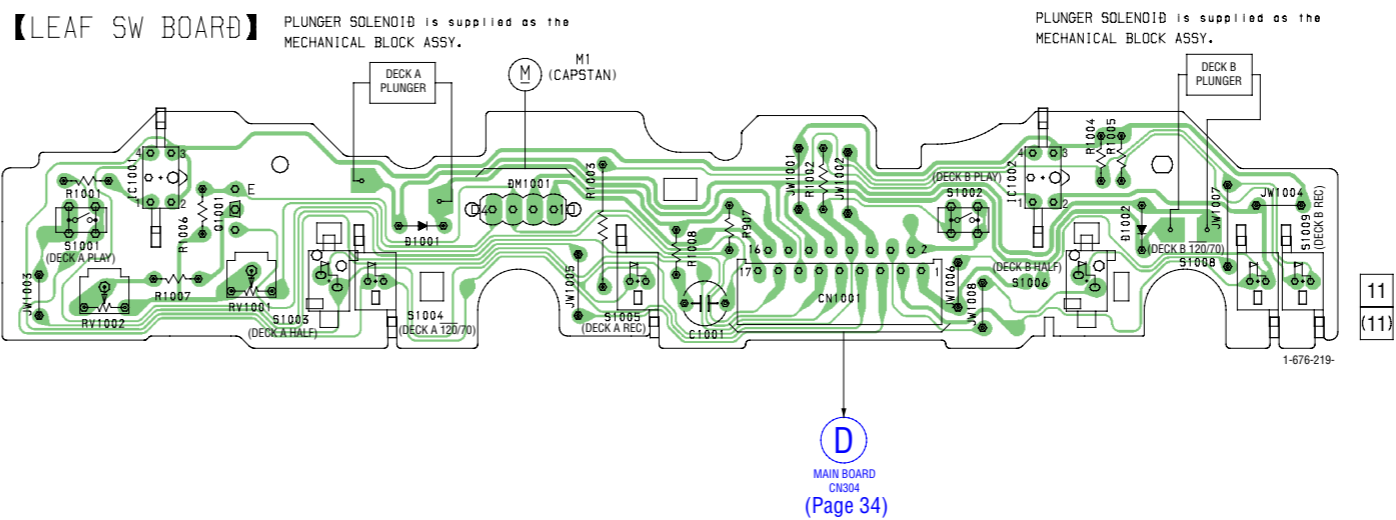


Ref. No.	Location
IC601	B-2
IC602	B-3
IC611	B-8
Q621	B-5
Q622	B-5
Q623	B-6

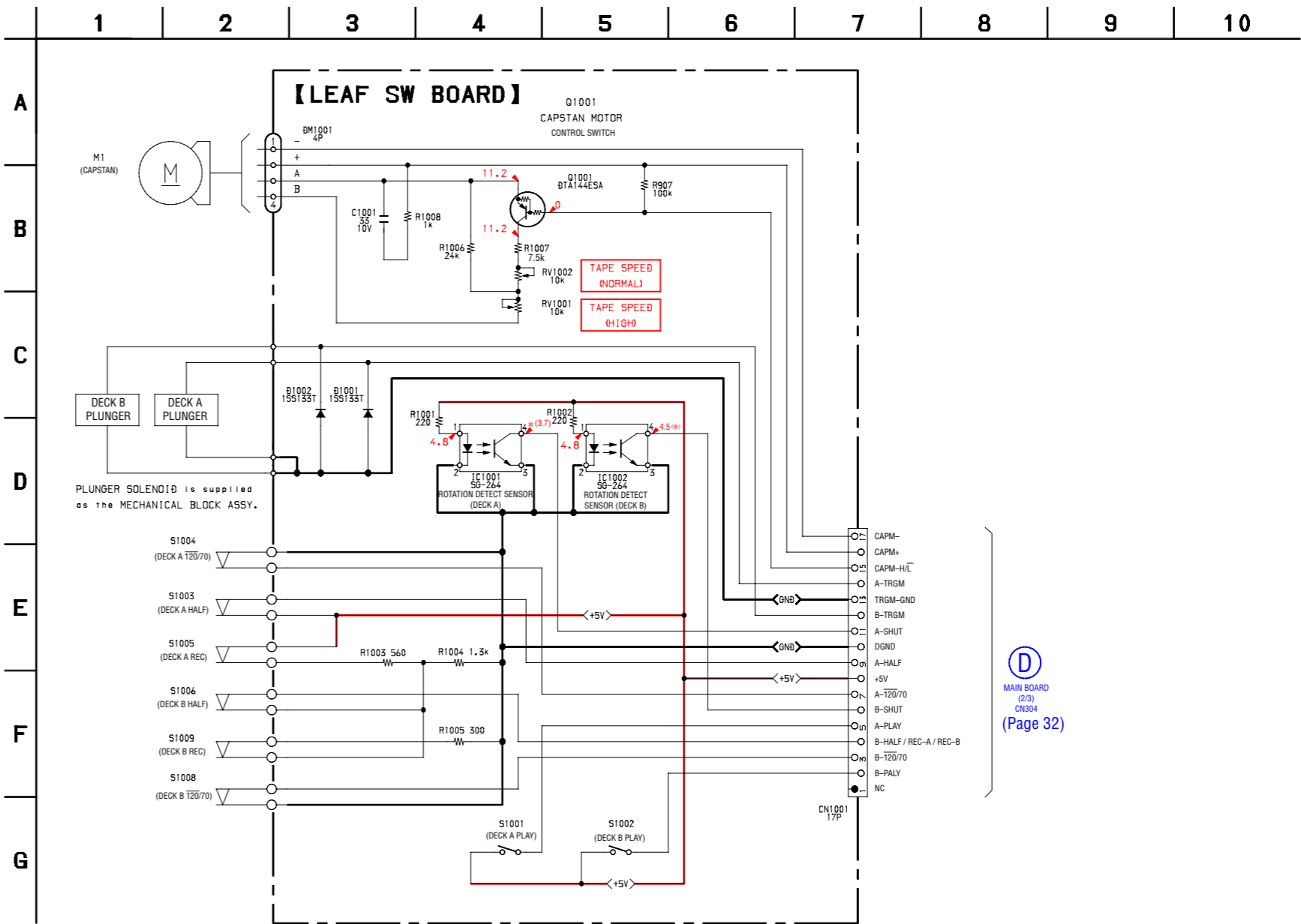


29 29

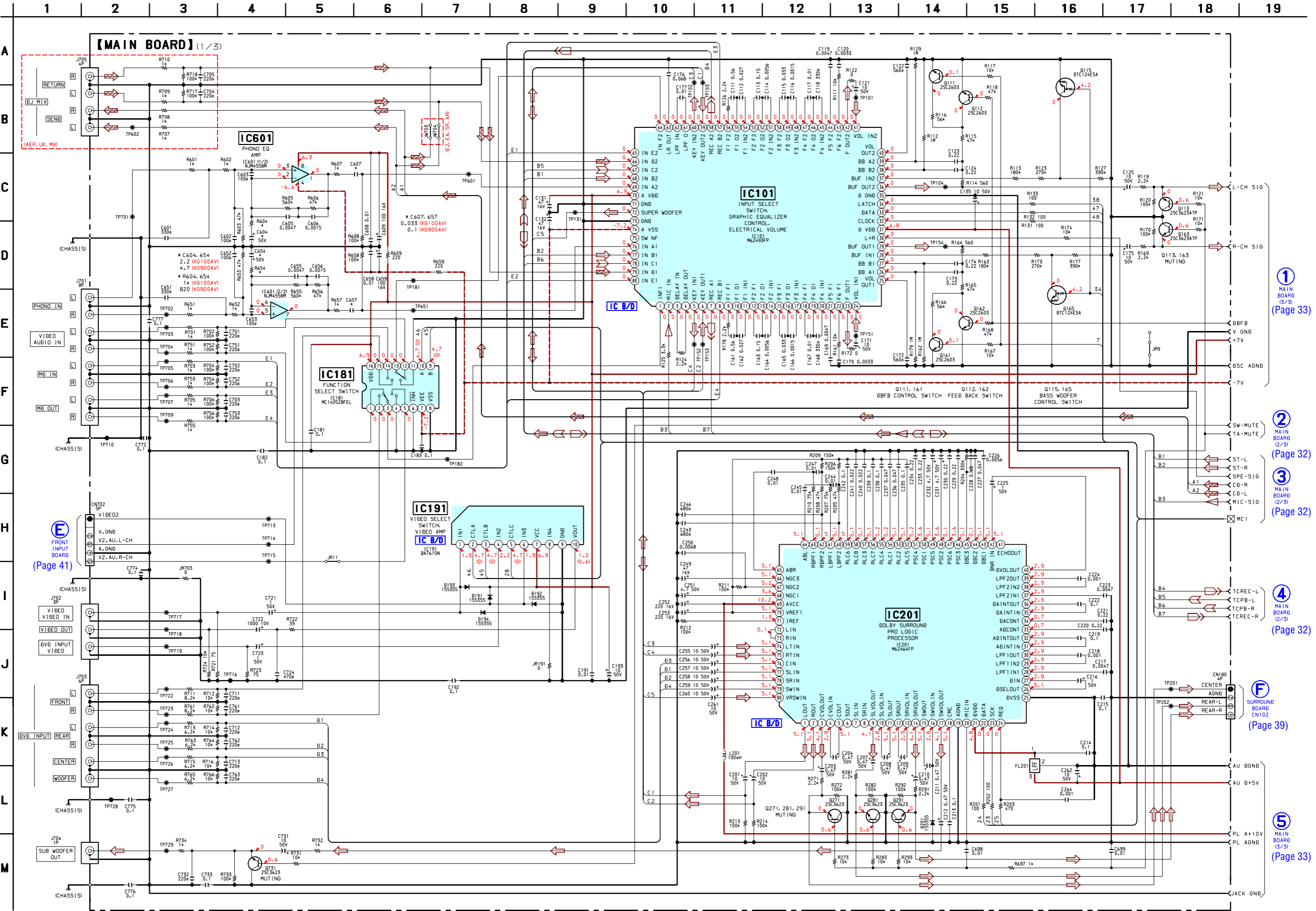
7-13. PRINTED WIRING BOARD – LEAF SW Board – • See page 23 for Circuit Boards Location.



7-14. SCHEMATIC DIAGRAM – LEAF SW Board –



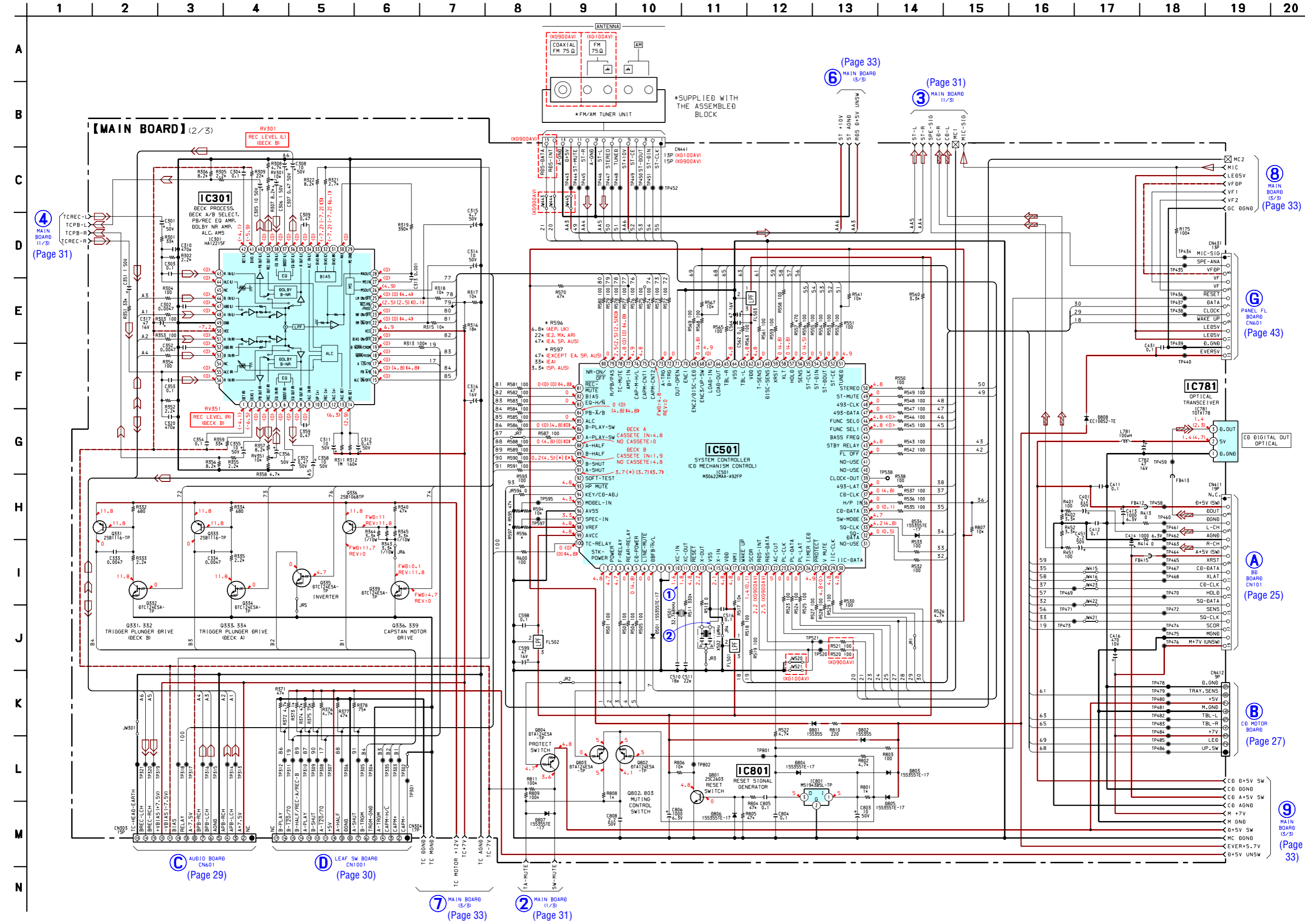
7-15. SCHEMATIC DIAGRAM – MAIN Board (1/3) – • See page 49 for IC Block Diagram.



• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
 no mark : TUNER (FM/AM)  
 ( ) : VIDEO

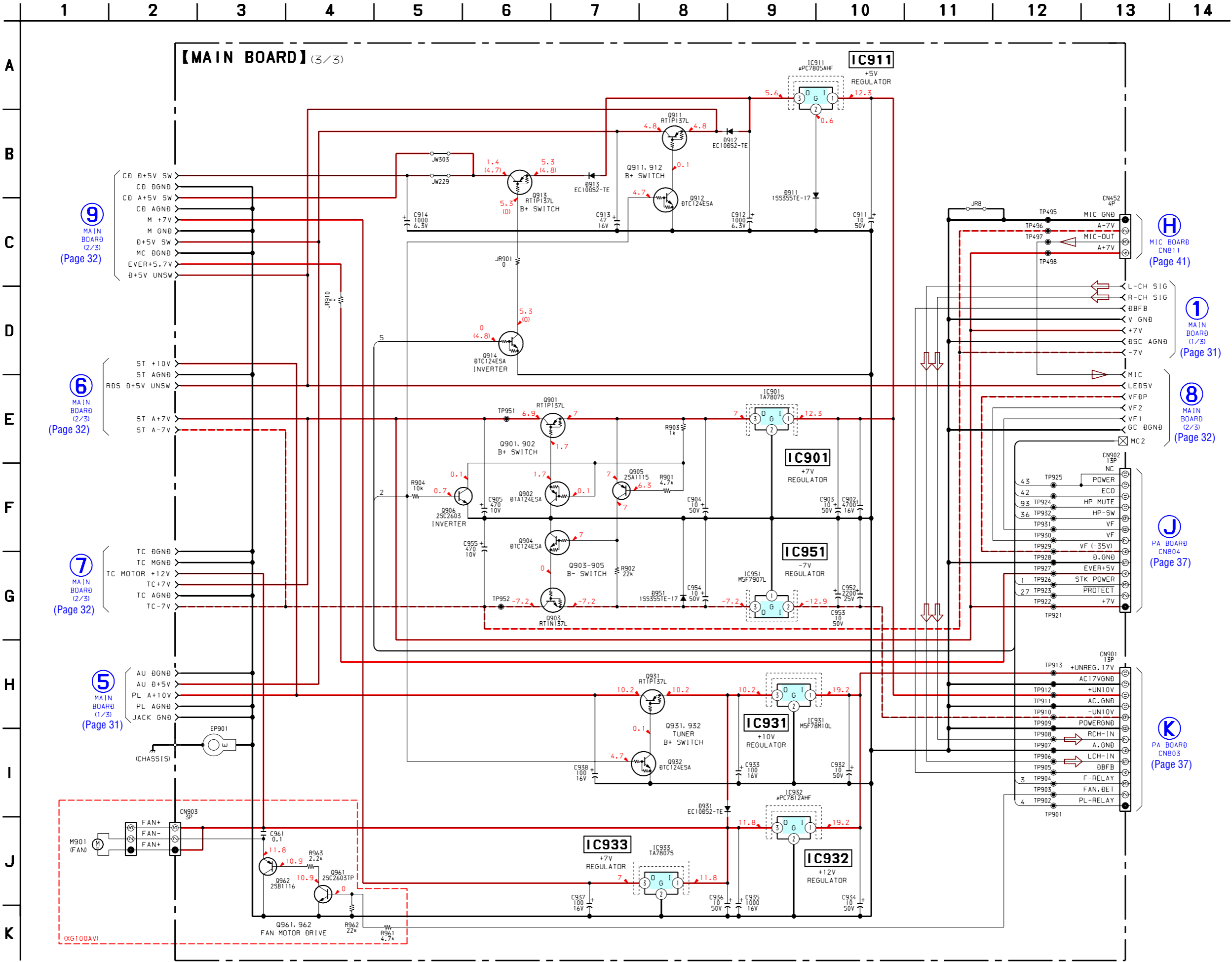
HCD-XG100AV/XG900AV

7-16. SCHEMATIC DIAGRAM – MAIN Board (2/3) – • See page 35 for Waveforms.

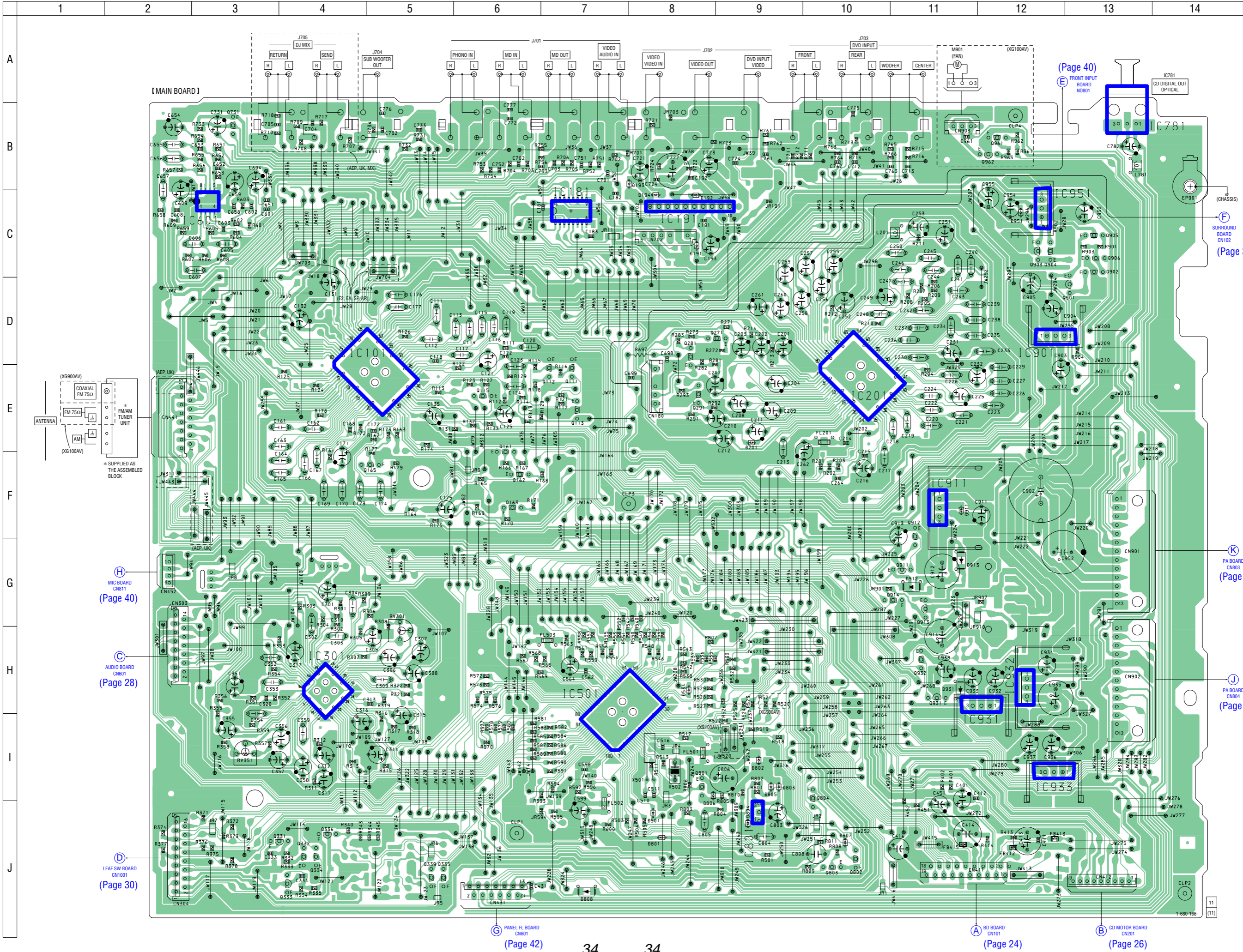


• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
no mark : TUNER (FM/AM)  
( ) : CD PLAY  
< > : VIDEO  
} : TAPE PLAY (DECK A)  
[ ] : TAPE PLAY (DECK B)  
≪ ≫ : RECORD  
\* : Impossible to measure

7-17. SCHEMATIC DIAGRAM – MAIN Board (3/3) –



• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
no mark : TUNER (FM/AM)  
( ) : CD PLAY



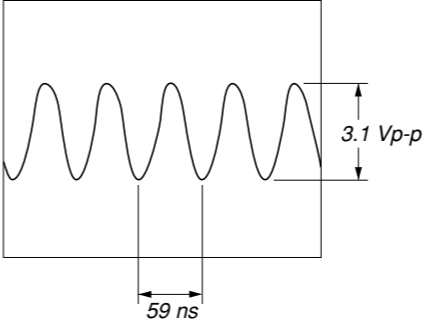
Semiconductor Location

Ref. No.	Location
D191	C-8
D192	C-8
D193	B-8
D194	C-8
D501	J-8
D534	H-8
D801	J-8
D802	I-9
D803	I-9
D804	J-9
D805	I-9
D806	I-8
D807	J-10
D808	J-7
D911	F-11
D912	G-11
D913	G-11
D931	H-11
D951	C-12
IC101	E-5
IC201	E-10
IC181	C-7
IC191	C-8
IC301	H-4
IC501	H-7
IC601	C-3
IC781	B-13
IC801	J-9
IC901	D-12
IC911	F-11
IC931	H-12
IC932	H-12
IC933	I-12
IC951	C-12
Q111	E-7
Q112	E-7
Q113	E-7
Q115	E-6
Q161	E-6
Q162	F-6
Q163	F-6
Q165	F-5
Q271	D-9
Q281	D-8
Q291	E-8
Q331	J-4
Q332	J-4
Q333	J-4
Q334	J-4
Q335	J-5
Q336	J-4
Q339	J-5
Q731	B-3
Q801	I-8
Q802	J-10
Q803	J-10
Q804	I-10
Q901	D-13
Q902	C-13
Q903	C-12
Q904	C-12
Q905	C-13
Q906	C-13
Q911	G-11
Q912	F-11
Q913	G-11
Q914	G-11
Q931	H-11
Q932	H-11
Q961	B-12
Q962	B-12

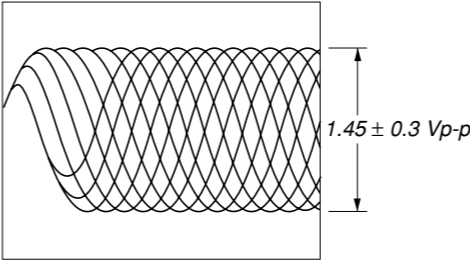
Waveforms

BD Board

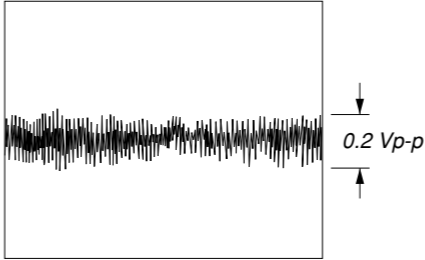
IC101 (XTAO)



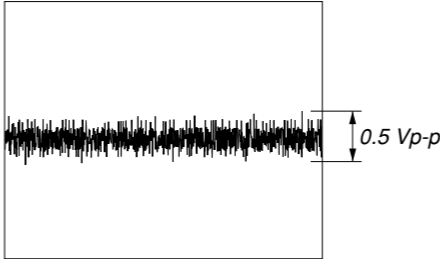
IC101 (RFAC) (CD Play Mode)



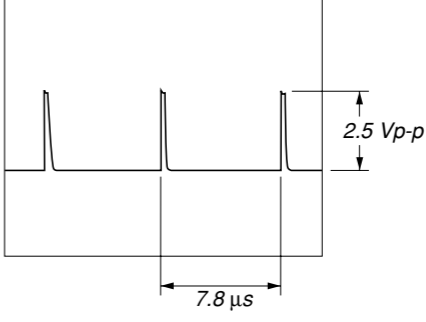
IC101 (TE) (CD Play Mode)



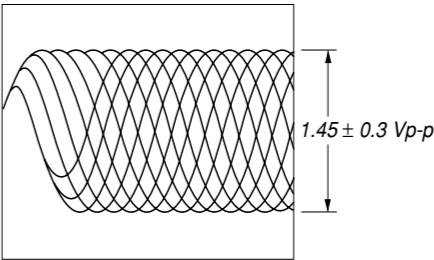
IC101 (FE) (CD Play Mode)



IC101 (MDP) (CD Play Mode)

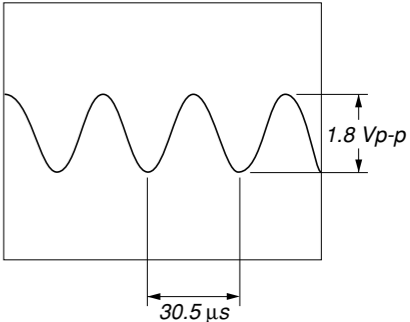


IC103 (RFO) (CD Play Mode)

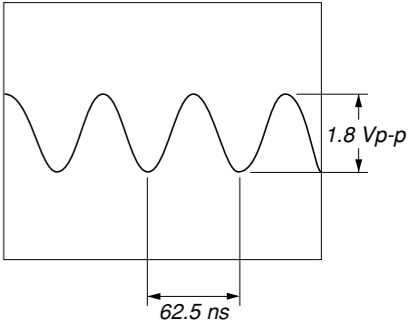


MAIN Board

IC501 (XC-IN)

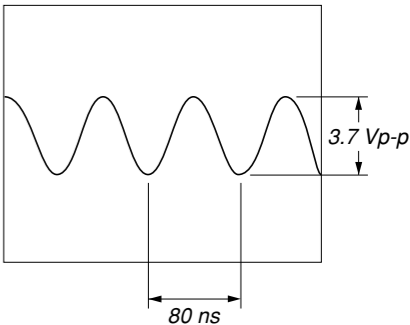


IC501 (X-IN)



PANEL FL Board

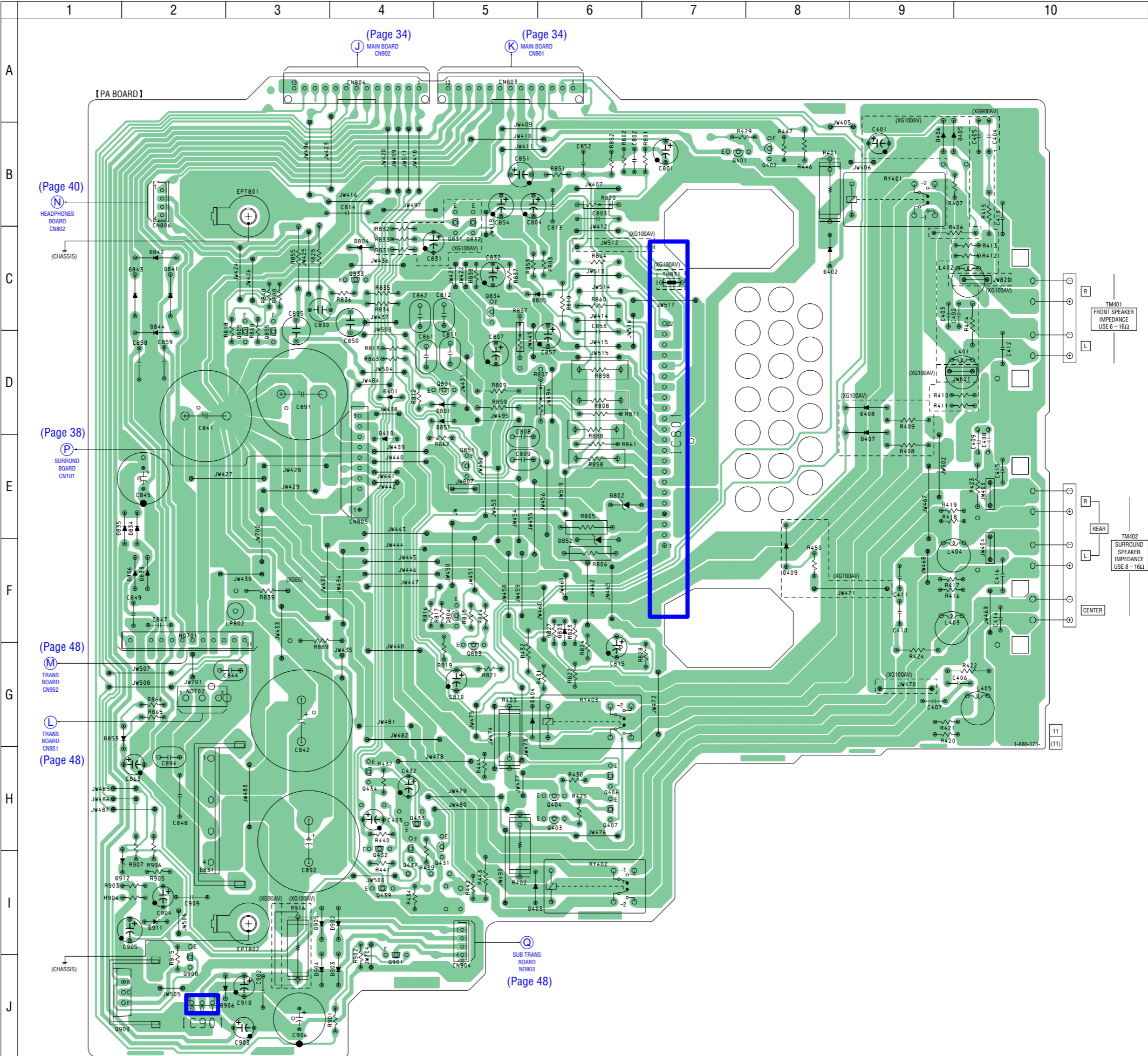
IC601 (XIN)

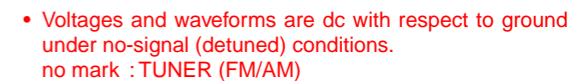


7-19. PRINTED WIRING BOARD – PA Board – • See page 23 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
D401	D-4
D402	C-8
D403	I-5
D404	G-5
D405	B-9
D406	B-9
D407	D-9
D408	D-9
D409	F-8
D410	E-4
D801	D-5
D802	E-6
D803	F-6
D804	C-4
D805	C-6
D831	H-2
D833	F-2
D834	E-2
D835	E-2
D836	F-2
D841	C-2
D842	C-2
D843	C-2
D844	D-2
D851	D-5
D852	F-6
D853	G-2
D902	I-4
D903	J-4
D904	J-3
D905	I-3
D906	J-3
D911	I-2
D912	I-2
IC801	D-7
IC901	J-2
Q401	B-7
Q402	B-8
Q403	H-6
Q404	H-6
Q406	H-6
Q407	H-6
Q431	H-5
Q432	H-4
Q433	H-4
Q434	H-4
Q437	H-4
Q439	I-4
Q801	D-5
Q803	G-5
Q804	F-5
Q805	D-3
Q831	B-5
Q832	B-5
Q833	C-4
Q834	C-5
Q851	E-5
Q855	D-3
Q901	J-4
Q903	J-2
Q908	J-2

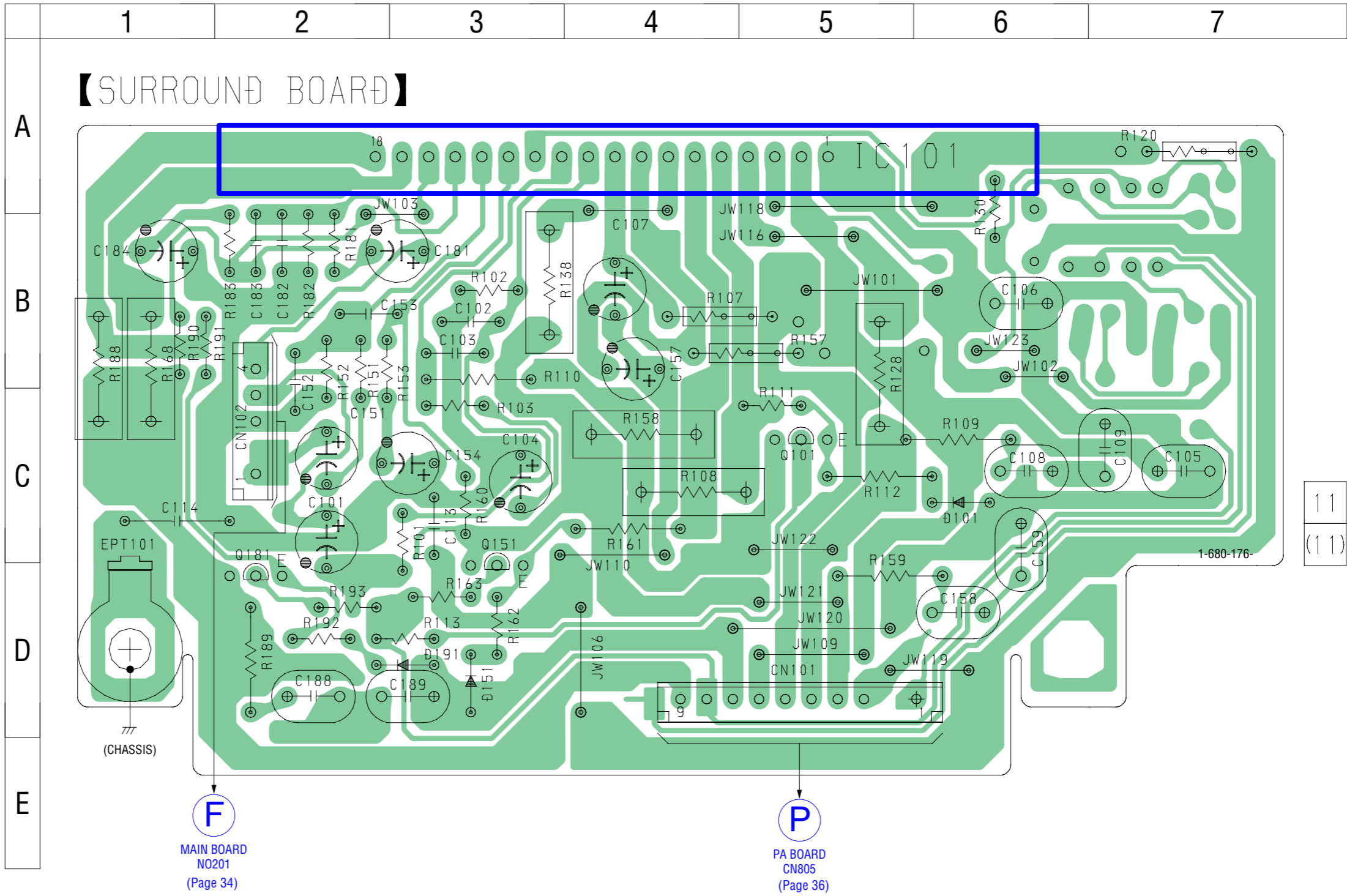




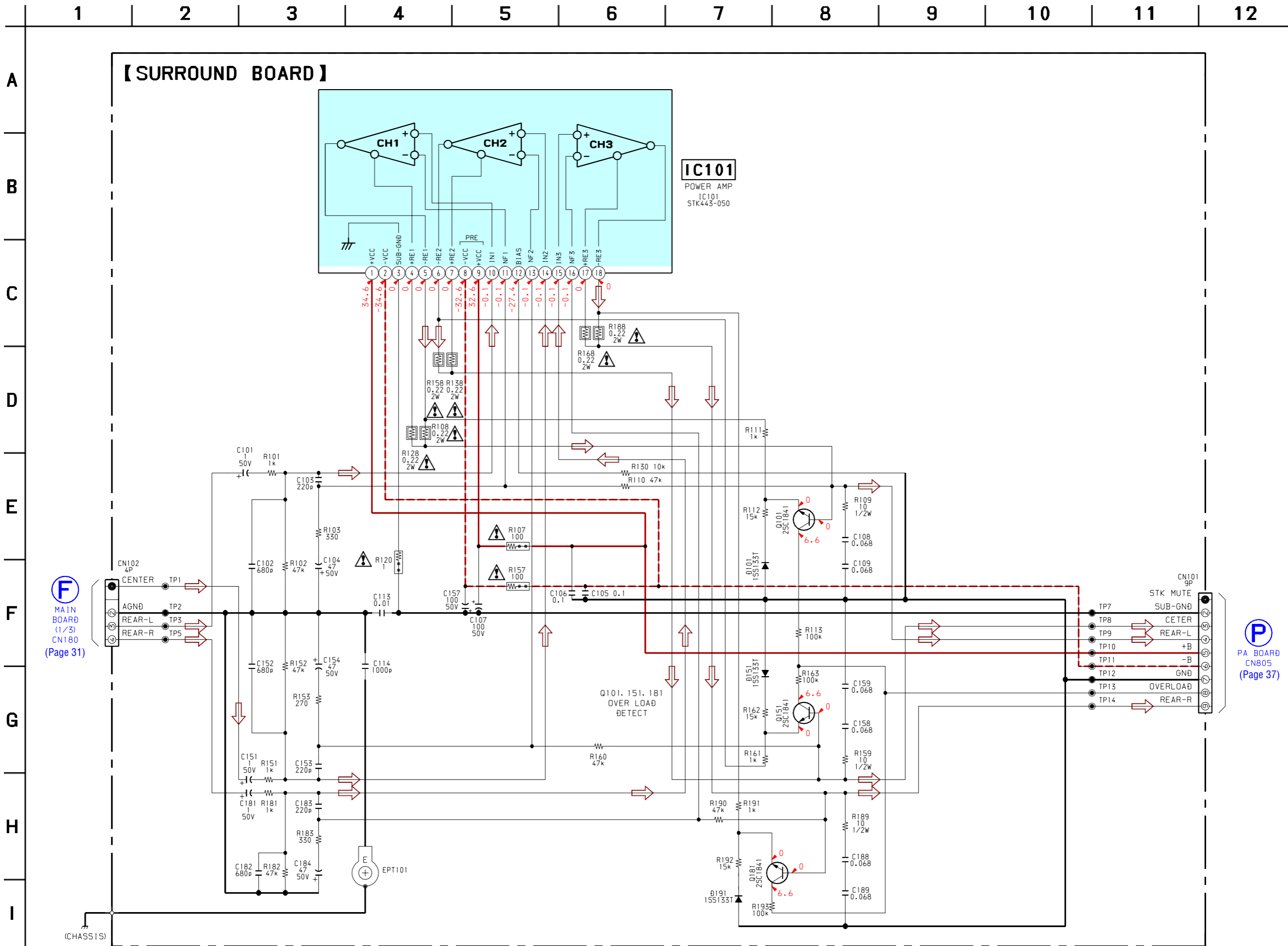
7-21. PRINTED WIRING BOARD – SURROUND Board – • See page 23 for Circuit Boards Location.

• Semiconductor Location

Ref. No.	Location
D101	C-6
D151	D-3
D191	D-3
IC101	A-4
Q101	C-5
Q151	D-3
Q181	D-2



7-22. SCHEMATIC DIAGRAM – SURROUND Board –

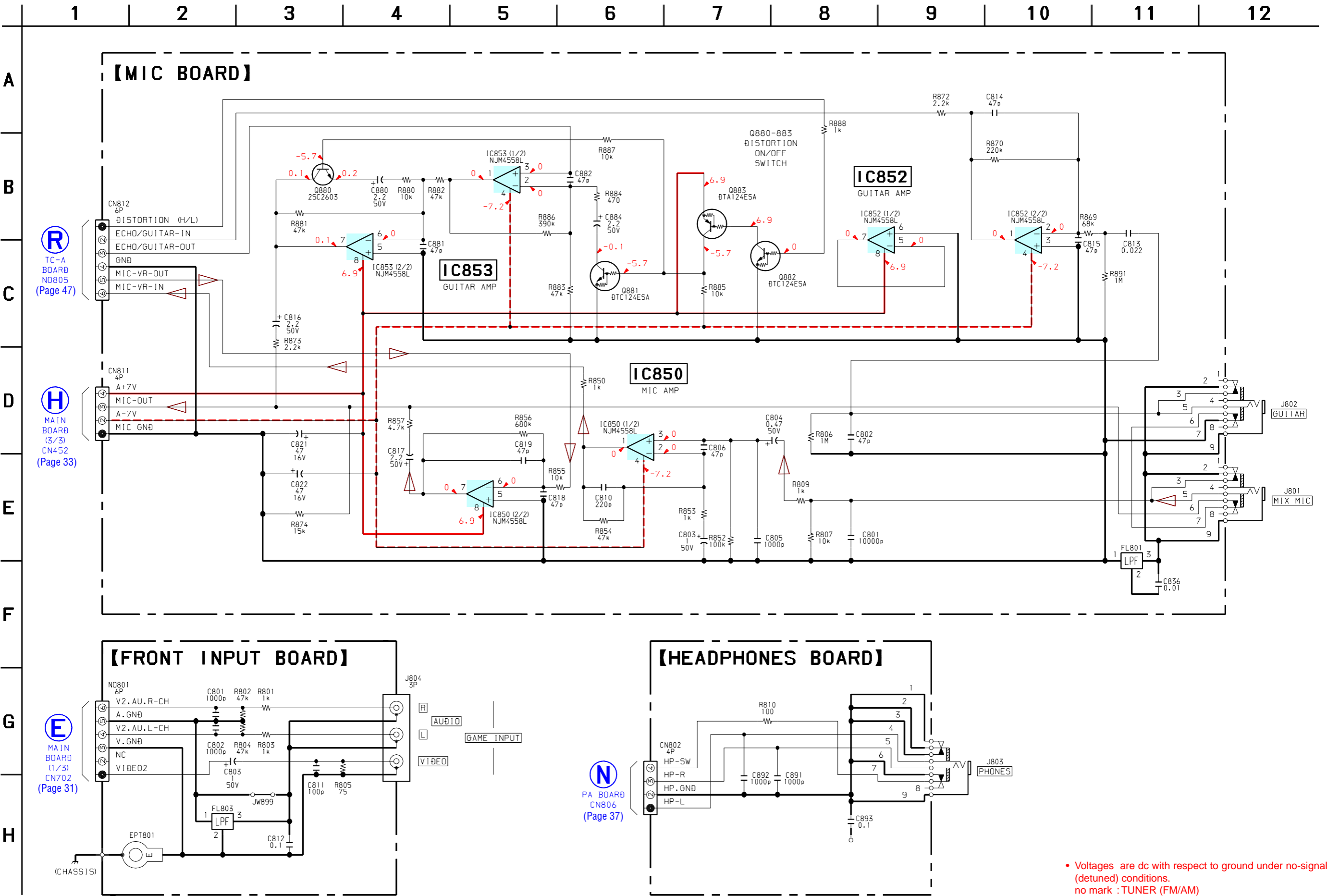


The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

• Voltages are dc with respect to ground under no-signal (detuned) conditions.  
no mark : TUNER (FM/AM)

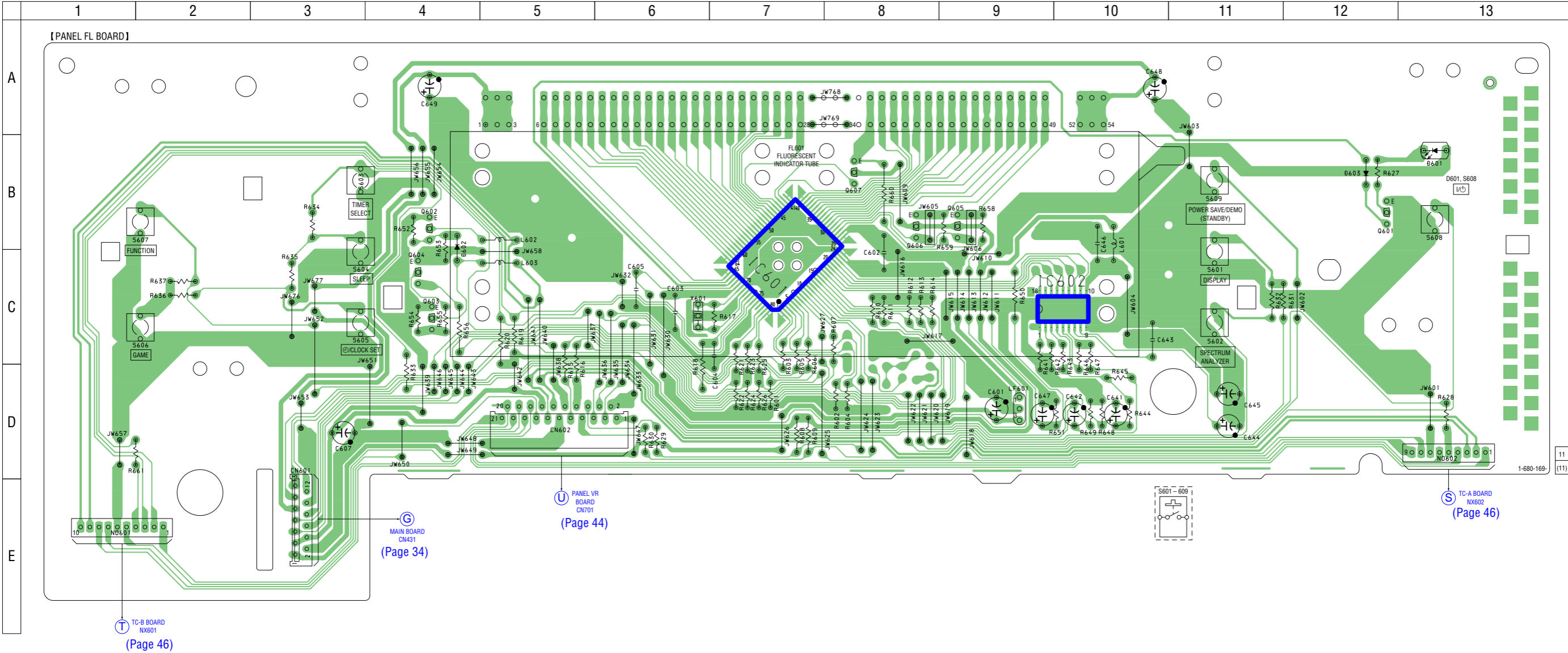


7-24. SCHEMATIC DIAGRAM – MIC/FRONT INPUT/HEADPHONES Boards –



• Voltages are dc with respect to ground under no-signal (detuned) conditions.  
no mark : TUNER (FM/AM)

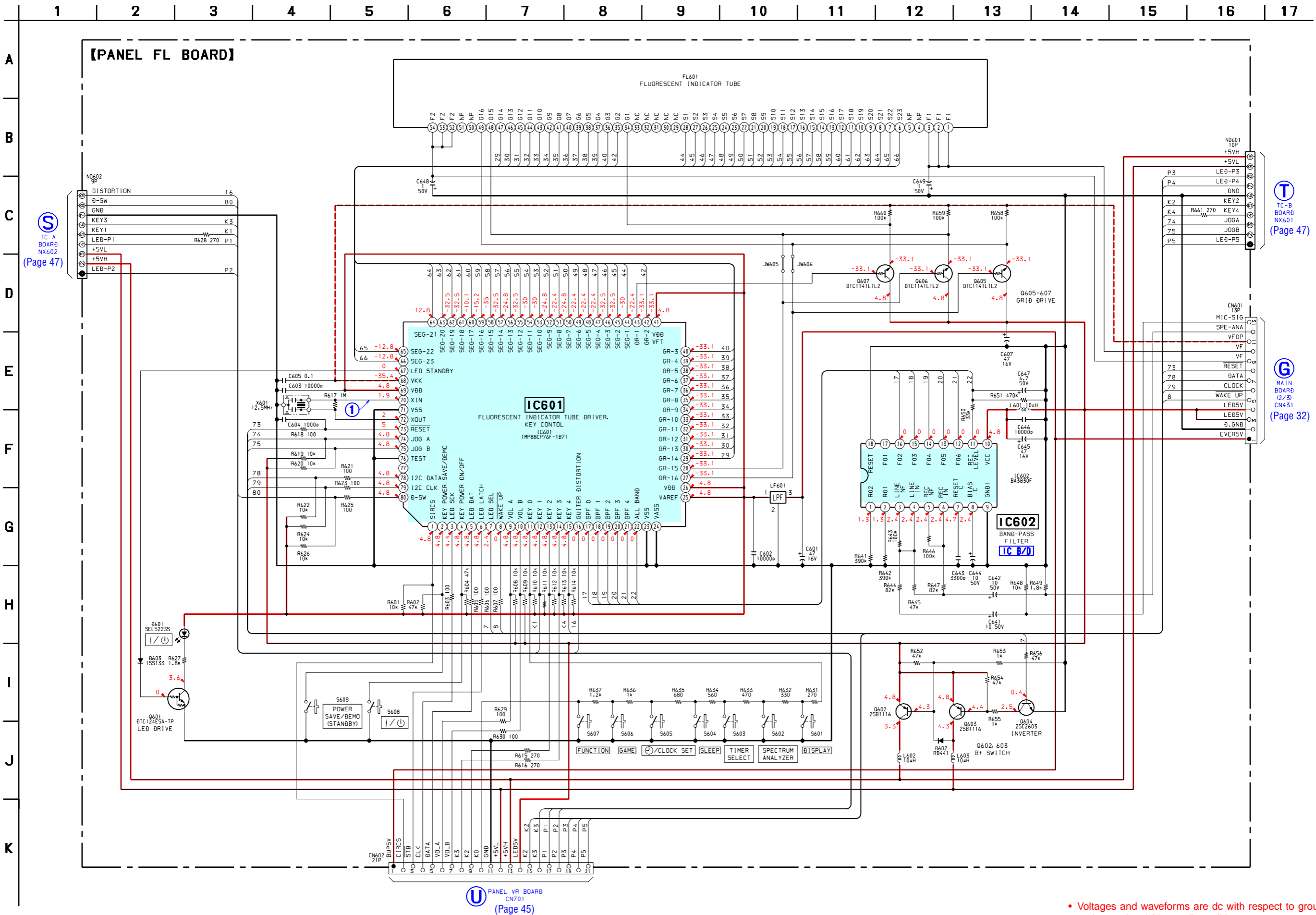
7-25. PRINTED WIRING BOARD – PANEL FL Board – • See page 23 for Circuit Boards Location.



• Semiconductor Location

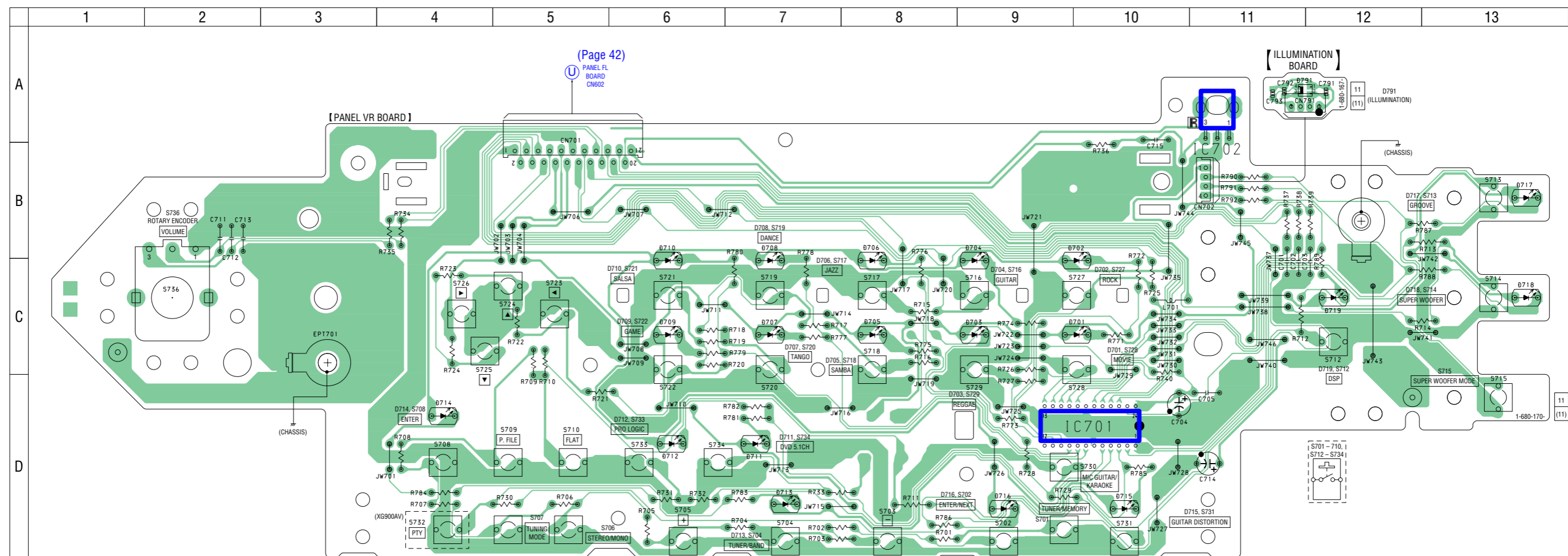
Ref. No.	Location
D601	B-13
D602	B-4
D603	B-12
IC601	C-7
IC602	C-10
Q601	B-12
Q602	B-4
Q603	C-4
Q604	C-4
Q605	B-9
Q606	B-8
Q607	B-8

7-26. SCHEMATIC DIAGRAM – PANEL FL Board – • See page 35 for Waveform. • See page 49 for IC Block Diagram.



• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
no mark : TUNER (FM/AM)

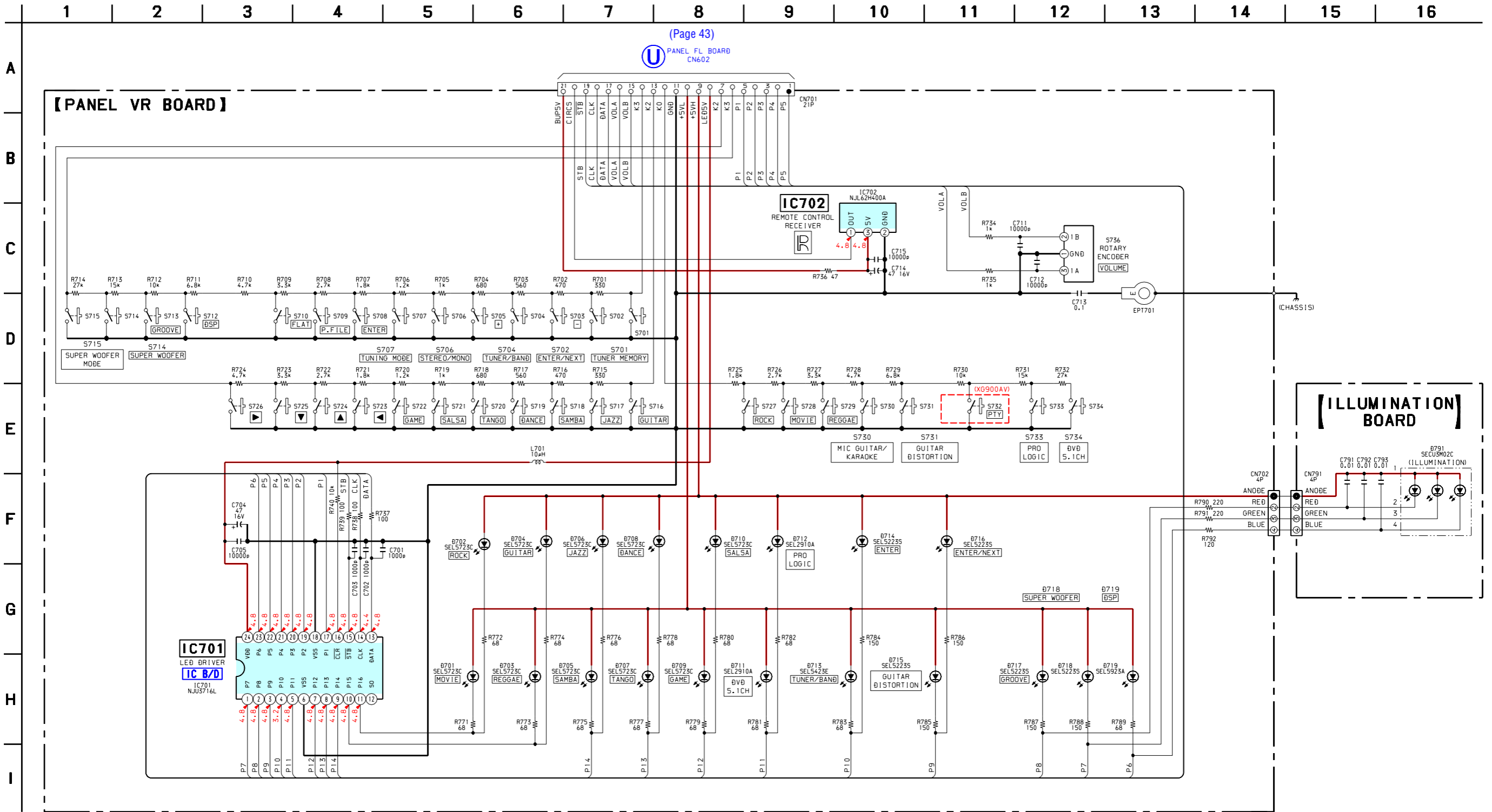
**7-27. PRINTED WIRING BOARDS – PANEL VR/ILLUMINATION Boards – • See page 23 for Circuit Boards Location.**



- **Semiconductor Location**

Ref. No.	Location
D701	C-10
D702	C-10
D703	C-9
D704	C-9
D705	C-8
D706	C-8
D707	C-7
D708	C-7
D709	C-6
D710	C-6
D711	D-7
D712	D-6
D713	D-7
D714	D-4
D715	D-10
D716	D-9
D717	B-13
D718	C-13
D719	C-12
D791	A-11
IC701	D-10
IC702	A-11

7-28. SCHEMATIC DIAGRAM – PANEL VR/ILLUMINATION Boards – • See page 49 for IC Block Diagram.



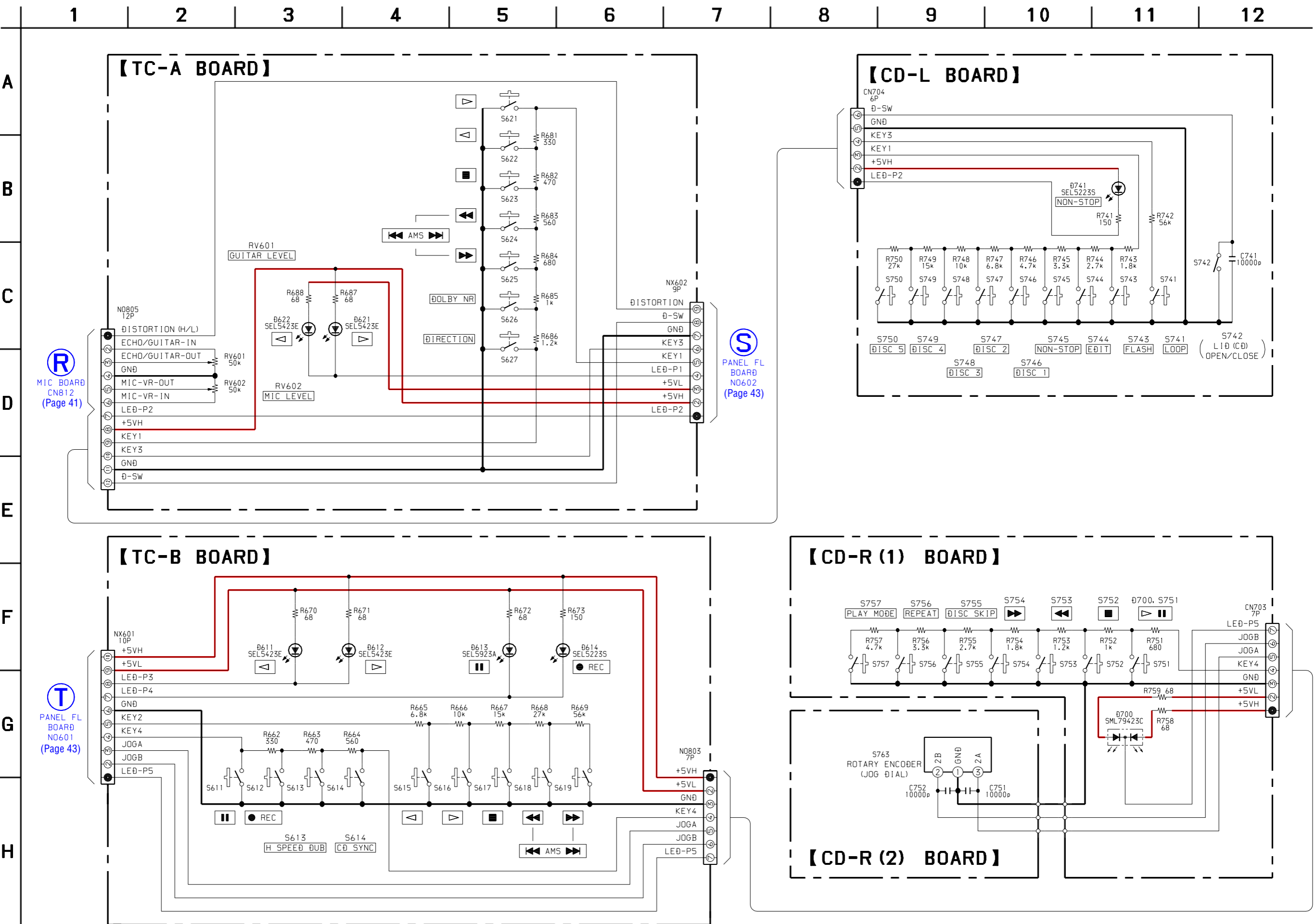
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.  
no mark : TUNER (FM/AM)

**7-29. PRINTED WIRING BOARDS – TC-A/TC-B/CD-L/CD-R (1)/CD-R (2) Boards – • See page 23 for Circuit Boards Location.**



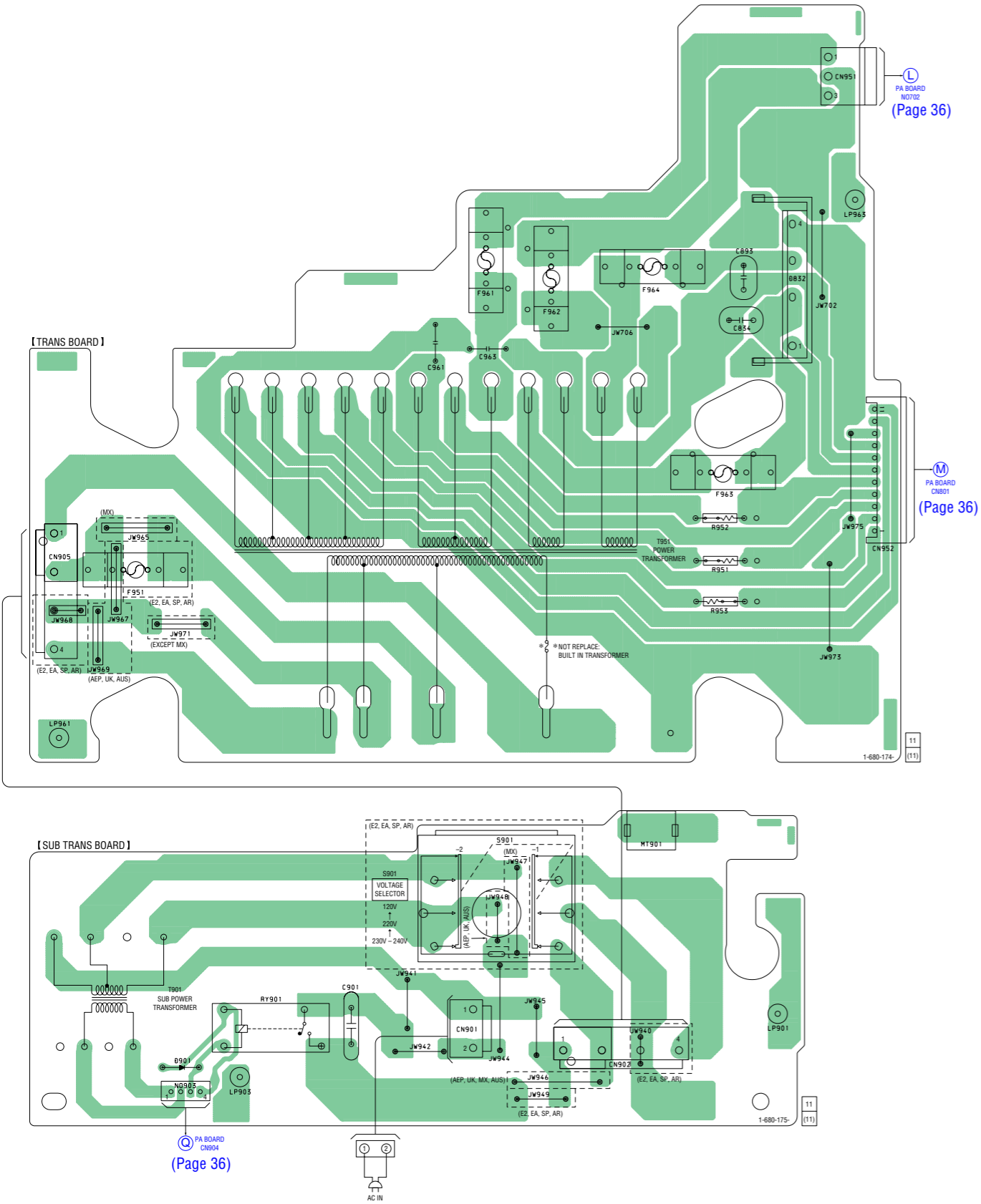
Ref. No.	Location
D611	B-5
D612	B-4
D613	C-5
D614	C-4
D621	B-1
D622	B-2
D700	E-9
D741	C-7

7-30. SCHEMATIC DIAGRAM – TC-A/TC-B/CD-L/CD-R (1)/CD-R (2) Boards –

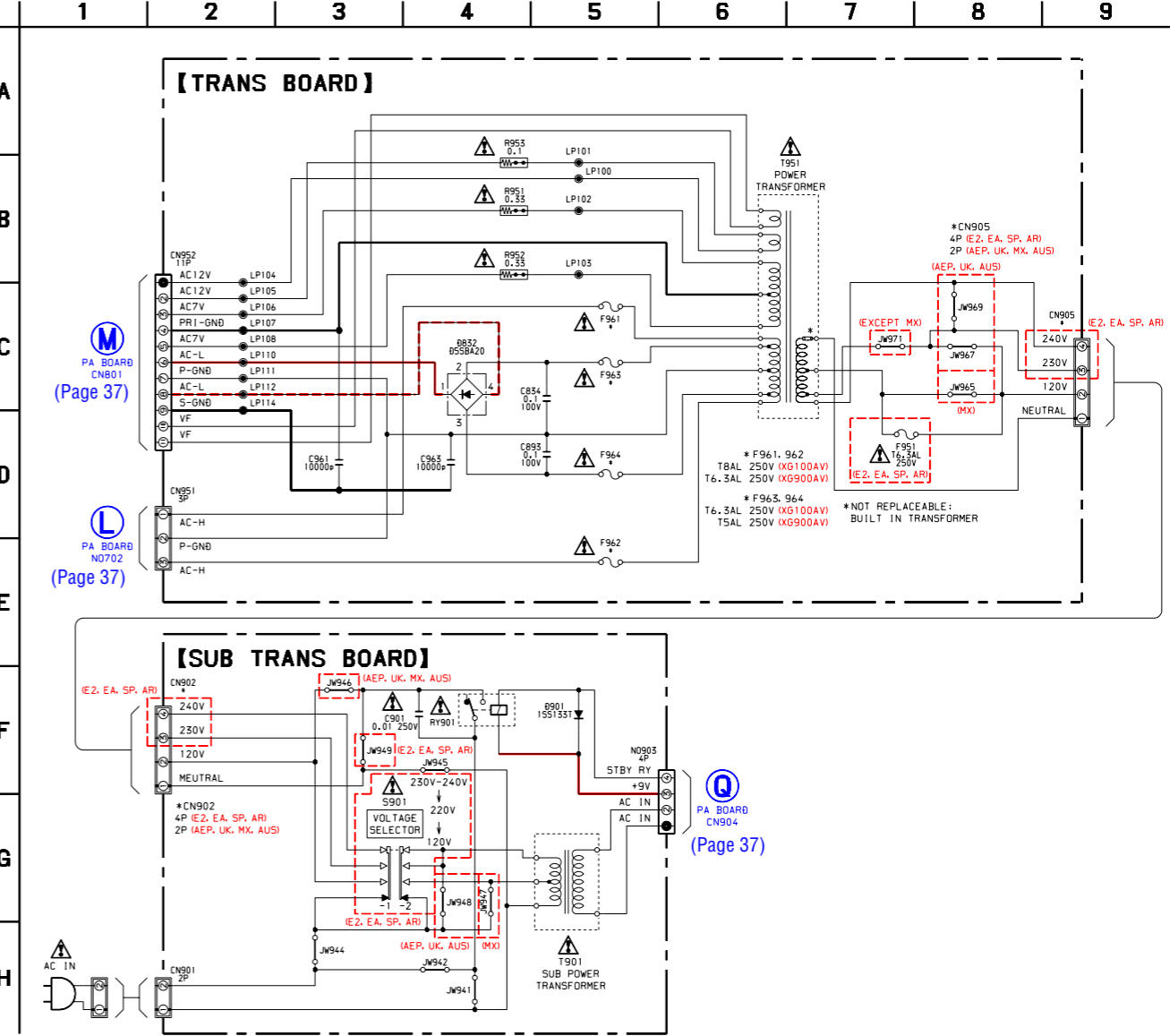


7-31. PRINTED WIRING BOARDS – TRANSFORMER Section–

- See page 23 for Circuit Boards Location.



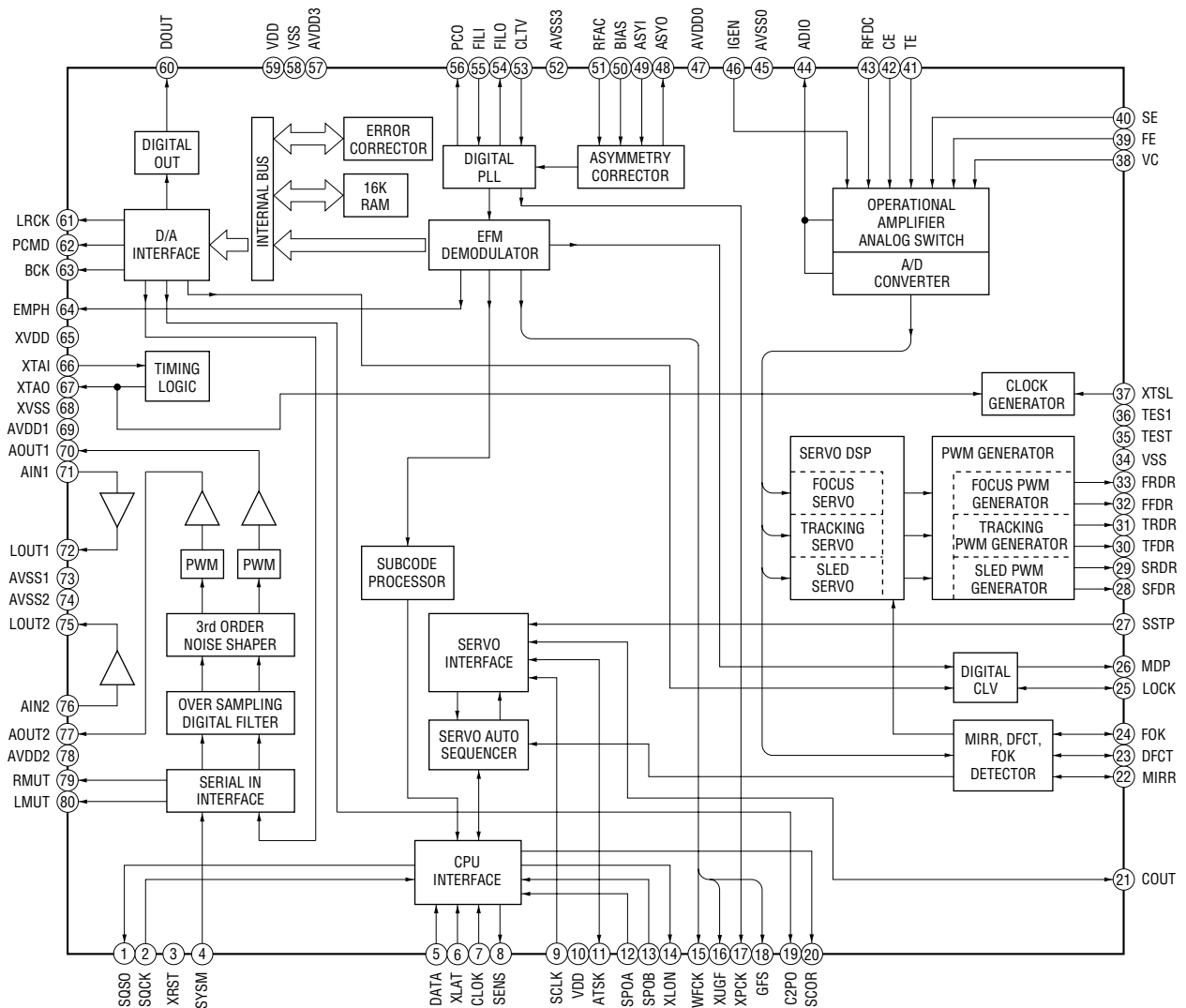
7-32. SCHEMATIC DIAGRAM – TRANSFORMER Section –



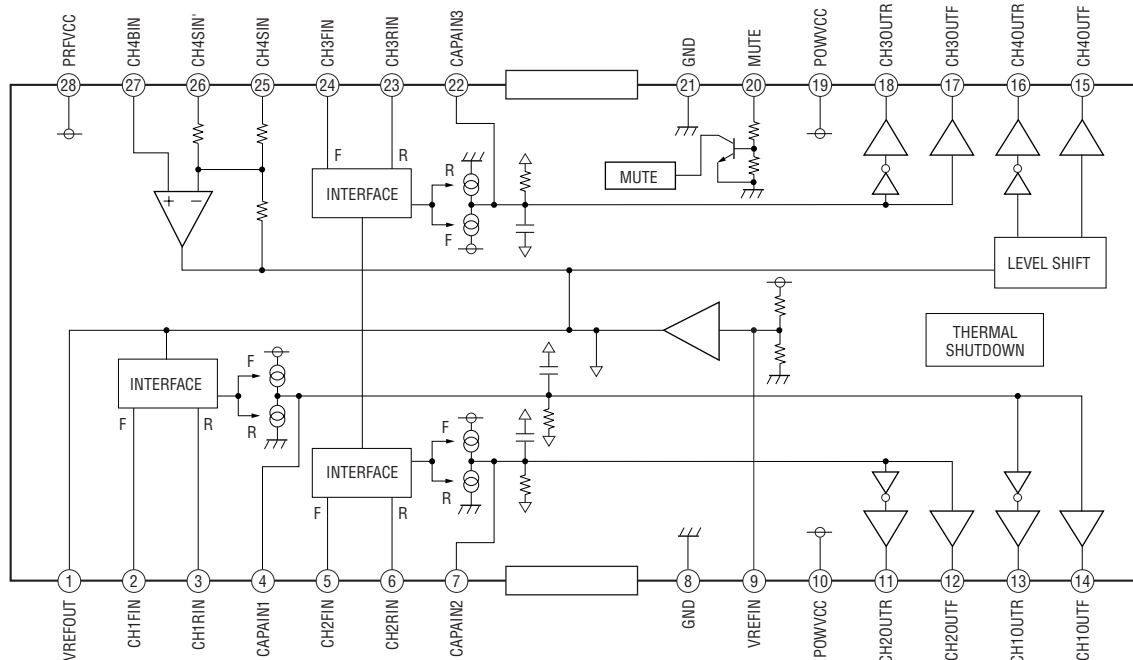
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

• IC Block Diagrams  
– BD Board –

IC101 CXD2587Q

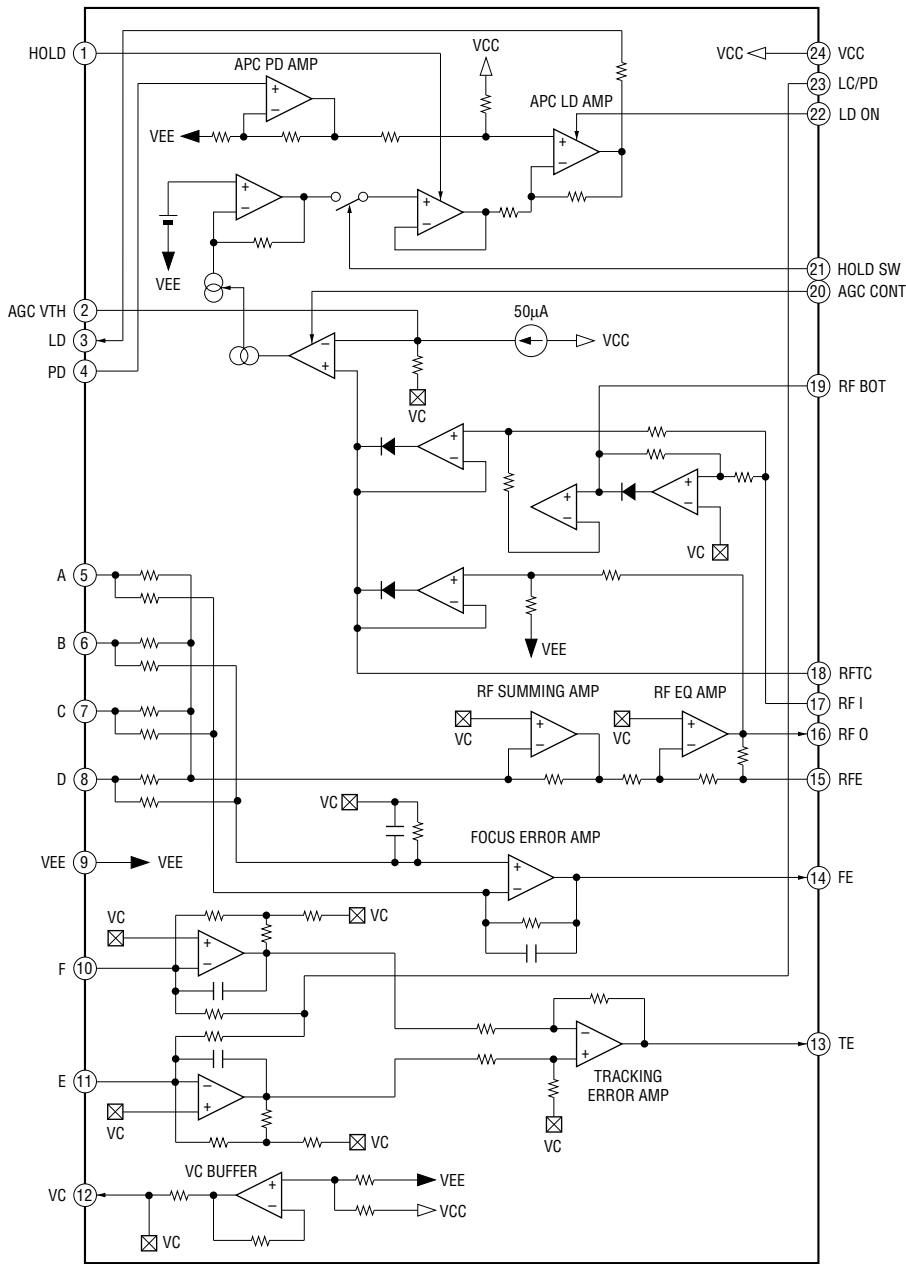


IC102 BA5974FP-E2



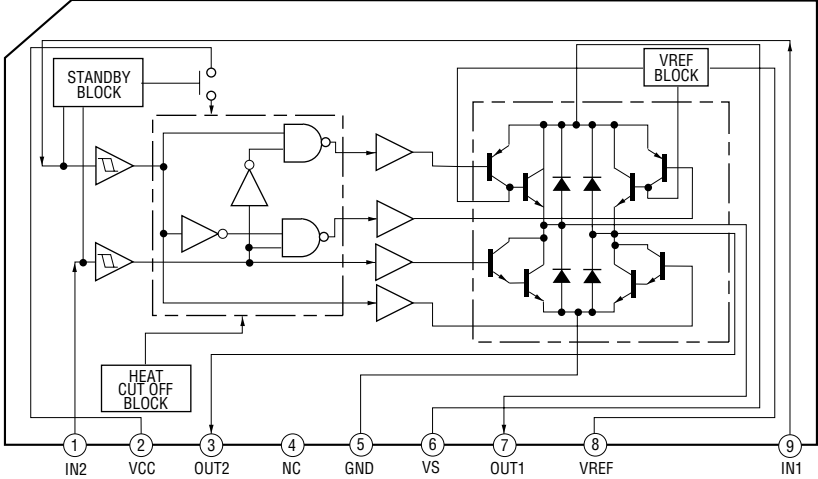
HCD-XG100AV/XG900AV

IC103 CXA2568M-T6

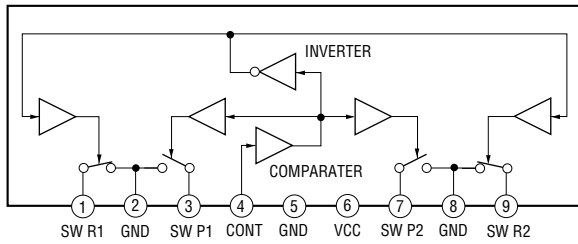


– CD MOTOR Board –

IC201 TA8409S

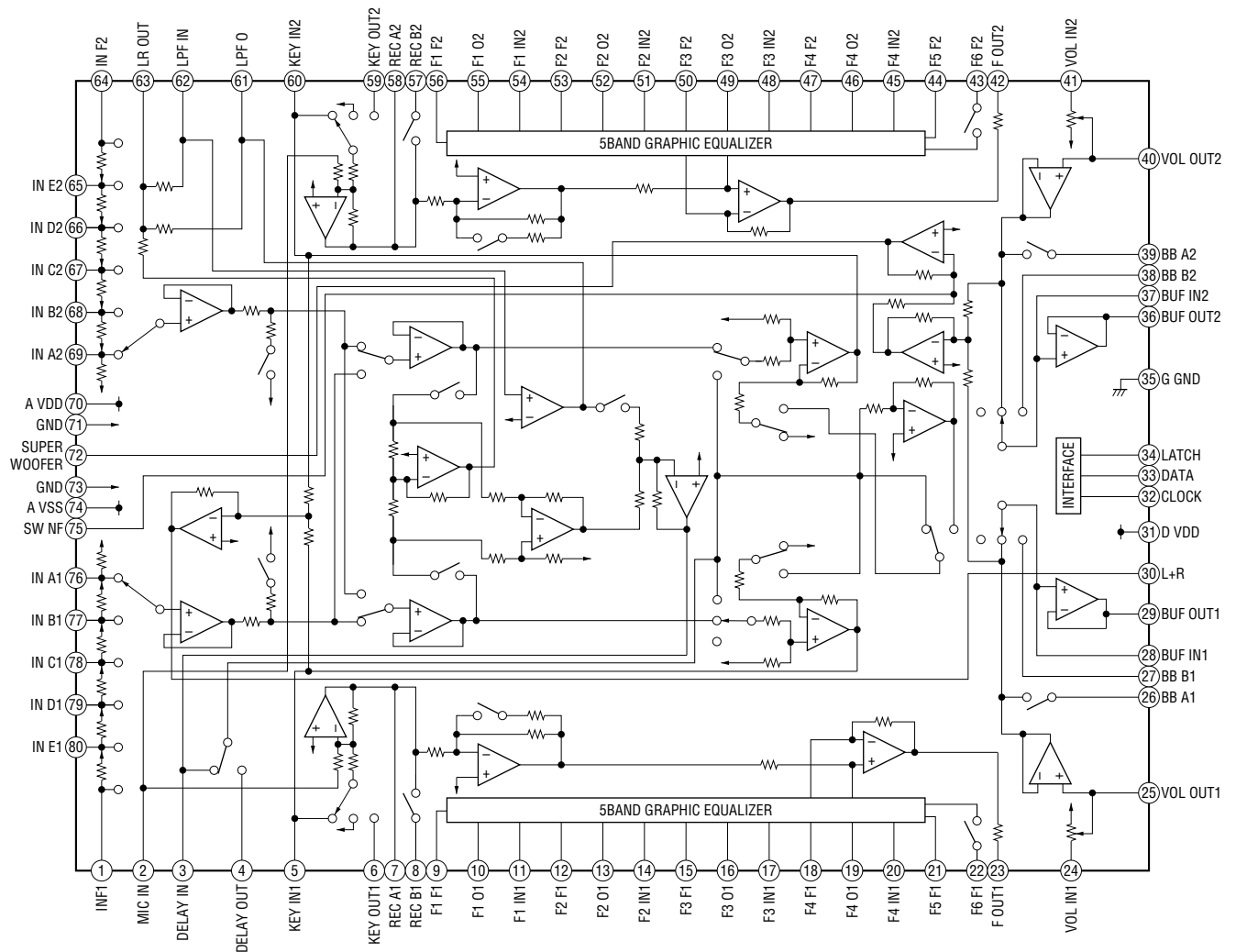


## – AUDIO Board –

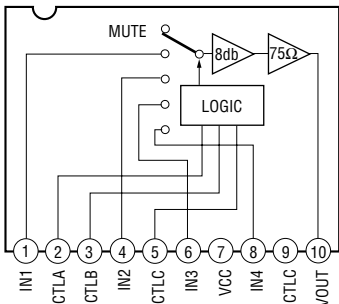
IC602  $\mu$ PC1330HA

## – MAIN Board –

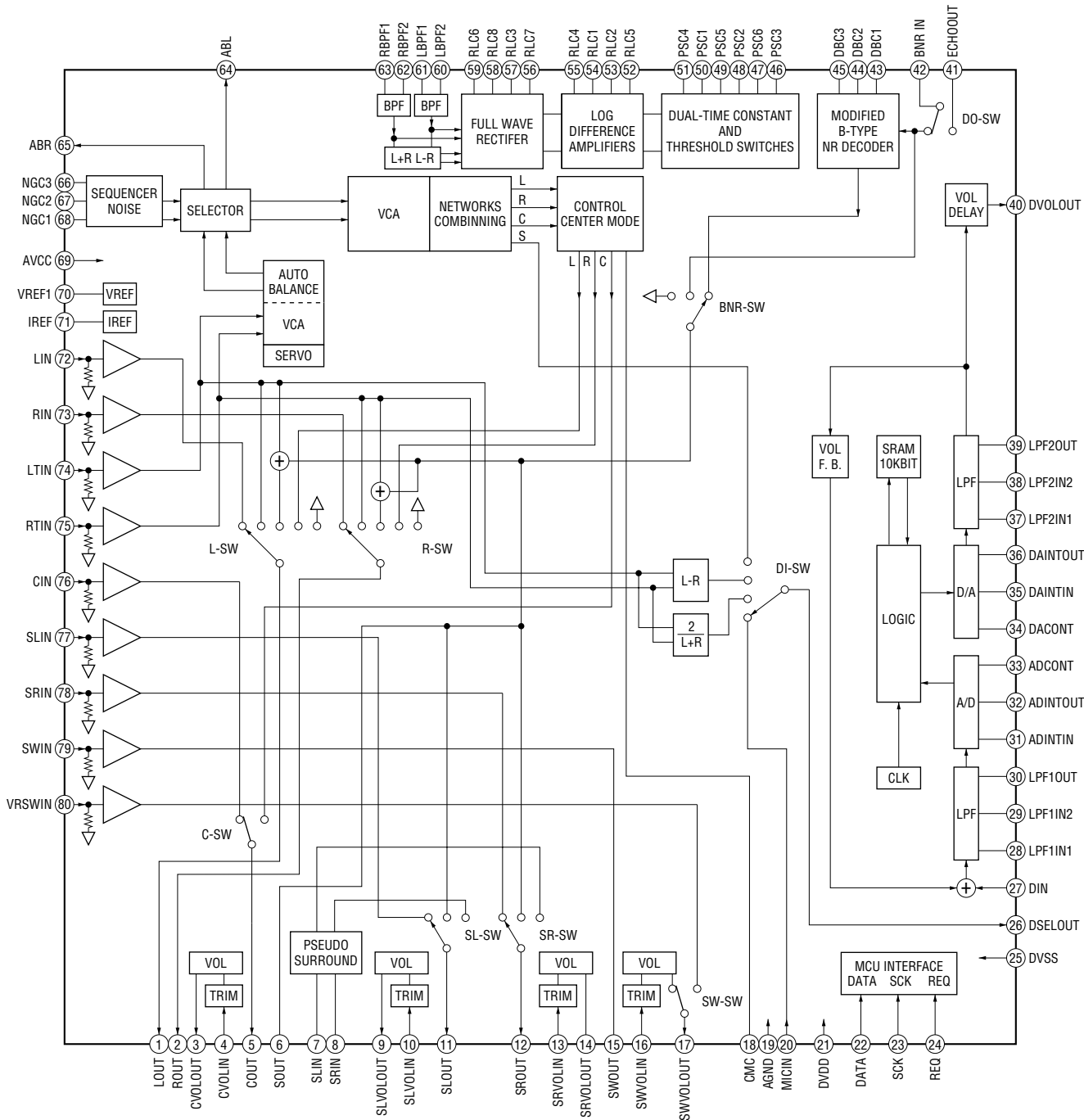
IC101 M62493FP



IC191 BA7615N

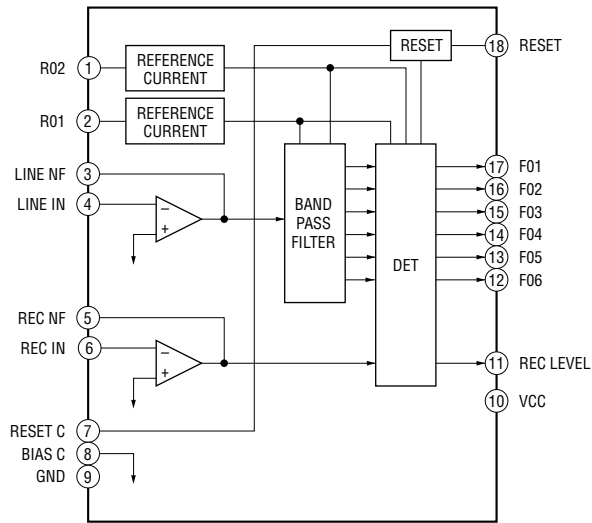


IC201 M62464FP



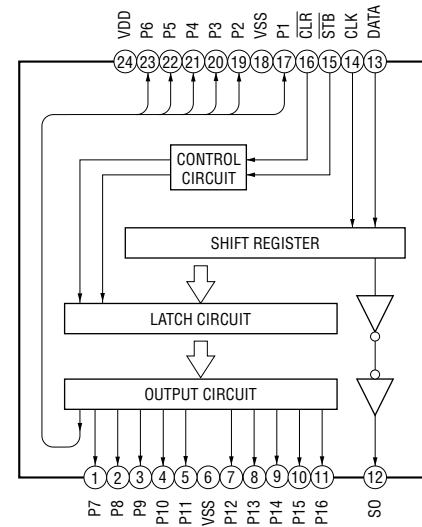
– PANEL FL Board –

IC602 BA3830F



– PANEL VR Board –

IC701 NJU3716L



## 7-33. IC PIN FUNCTION DESCRIPTION

## • MAIN BOARD IC501 M30622MAA-A92FP (SYSTEM CONTROLLER (CD MECHANISM CONTROL))

Pin No.	Pin Name	I/O	Description
1	STK-POWER	O	Power amplifier on/off selection signal output “L”: standby mode, “H”: power amplifier on
2	POWER	O	Power on/off control signal output for the audio system (+5V) and deck, panel, audio system (+7V) and FM/AM tuner unit (+10V) “L”: standby mode, “H”: power on
3	F-RELAY	O	Relay drive signal output for the front speaker protect “H”: relay on
4	REAR-RELAY	O	Relay drive signal output for the rear/center speaker protect “H”: relay on
5	CD-POWER	O	Power on/off control signal output for the CD mechanism deck section “L”: standby mode, “H”: power on
6	LINE-MUTE	O	Line muting on/off control signal output “L”: muting on, “H”: muting off
7	DBFB-H/L	O	DBFB normal/high selection signal output to the M62493FP (IC101) “L”: DBFB high, “H”: DBFB low (normal)
8, 9	—	—	Connect to ground
10	XC-IN	I	Sub system clock input terminal (32.768 kHz)
11	XC-OUT	O	Sub system clock output terminal (32.768 kHz)
12	RESET	I	System reset signal input from the reset signal generator (IC801) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
13	X-OUT	O	Main system clock output terminal (16 MHz)
14	VSS	—	Ground terminal
15	X-IN	I	Main system clock input terminal (16 MHz)
16	VDD	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal Fixed at “H” in this set
18	WAKE UP	I	Wakeup control signal input from the fluorescent indicator tube driver (IC601) “L” active
19	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD2587Q (IC101)
20	RDS-INT	I	Serial data transfer clock signal input from the RDS decoder on the FM/AM tuner unit (Used for the HCD-XG900AV)
21	RDS-DATA	I	Serial data input from the RDS decoder on the FM/AM tuner unit (Used for the HCD-XG900AV)
22	AC-CUT	I	AC off detection signal input from the reset signal generator (IC801) “L”: AC cut checked
23	PL-CLK	O	Serial data transfer clock signal output to the M6246FP (IC201)
24	PL-DATA	O	Serial data output to the M6246FP (IC201)
25	PL-LAT	O	Serial data latch pulse output to the M6246FP (IC201)
26	TIMER LED	O	LED drive signal output terminal Not used (open)
27	PROTECT	I	Protect on/off detection signal input from the speaker protect circuit “L”: protect on, “H”: protect off
28	V MUTE	O	Video muting on/off control signal output to the BA7615N (IC191) “L”: muting off, “H”: muting on
29	IIC-CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the fluorescent indicator tube driver (IC601)
30	IIC-DATA	I/O	Communication data bus with the fluorescent indicator tube driver (IC601)
31	NO-USE	O	Not used (open)
32	SQ-DATA	I	Subcode Q data input from the CXD2587Q (IC101)
33	SQ-CLK	O	Subcode Q data reading clock signal output to the CXD2587Q (IC101)
34	SW-MODE	O	Music/movie mode selection signal output to the M62493FP (IC101) “L”: movie mode, “H”: music mode
35	CD-DATA	O	Serial data output to the CXD2587Q (IC101)
36	H/P IN	I	Connection detection signal input of the headphone jack (J803) “L”: no connected, “H”: headphone connected
37	CD-CLK	O	Serial data transfer clock signal output to the CXD2587Q (IC101)
38	493-LAT	O	Serial data latch pulse output to the M62493FP (IC101)

Pin No.	Pin Name	I/O	Description
39	CLOCK-OUT	O	Not used (open)
40, 41	NO-USE	O	Not used (open)
42	FL OFF	O	Filament on/off selection signal output for the fluorescent indicator tube (FL601) “L”: filament off, “H”: filament on Not used in this set
43	STBY RELAY	O	Main power on/off control signal output “L”: standby mode, “H”: power on
44	BASS FREQ	O	Sync bass frequency normal/high selection signal output terminal “L”: sync bass off (normal), “H”: sync bass high Not used (open)
45	FUNC SEL1	O	Function selection signal output to the MC14052BFEL (IC181) and video selection signal output to the BA7615N (IC191)
46	FUNC SEL0	O	Function selection signal output to the MC14052BFEL (IC181) and video selection signal output to the BA7615N (IC191)
47	493-DATA	O	Serial data output to the M62493FP (IC101)
48	493-CLK	O	Serial data transfer clock signal output to the M62493FP (IC101)
49	ST-MUTE	O	Tuner muting on/off control signal output to the FM/AM tuner unit “L”: muting off, “H”: muting on
50	STEREO	I	FM stereo detection signal input from the FM/AM tuner unit “L”: stereo
51	TUNED	I	Tuning detection signal input from the FM/AM tuner unit “L”: tuned
52	ST-CE	O	PLL chip enable signal output to the FM/AM tuner unit
53	ST-DOUT	O	PLL serial data output to the FM/AM tuner unit
54	ST-DIN	I	PLL serial data input from the FM/AM tuner unit
55	ST-CLK	O	PLL serial data transfer clock signal output to the FM/AM tuner unit
56	SENS	I	Internal status detection monitor input from the CXD2587Q (IC101)
57	HOLD	O	Laser power control signal output to the CXA2568M (IC103)
58	XLT	O	Serial data latch pulse output to the CXD2587Q (IC101)
59	XRST	O	Reset signal output to the CXD2587Q (IC101) and BA5974FP (IC102) “L”: reset
60	DISC-SENS	I	Disc status detection signal input terminal Not used (fixed at “L”)
61	T-SENS	I	Disc table status detection signal input from the disc table sensor (IC202)
62	VDD	—	Power supply terminal (+5V)
63	TBL-L	O	Motor drive signal output to the table motor driver (IC201) “L” active *1
64	VSS	—	Ground terminal
65	TBL-R	O	Motor drive signal output to the table motor driver (IC201) “L” active *1
66	LOAD-OUT	O	Loading motor drive signal output terminal Not used (open)
67	LOAD-IN	O	Loading motor drive signal output terminal Not used (open)
68	ENC3/UP-SW	I	Detection signal input from the up switch (S201)
69	ENC2/DISC-LED	O	LED drive signal output of the DISC No. indicator (D201) “H”: LED on
70	ENC1	I	Disc tray address detection signal input terminal Not used (fixed at “L”)
71	OUT-OPEN	I	Disc tray open/close detection signal input terminal Not used (fixed at “L”)
72	B-TRG	O	Deck-B side trigger plunger drive signal output “H”: plunger on
73	A-TRG	O	Deck-A side trigger plunger drive signal output “H”: plunger on
74	CAPM-CNT2	O	Capstan motor (M1) drive signal output “L”: reverse direction, “H”: forward direction
75	CAPM-CNT1	O	Capstan motor drive signal output terminal Not used (open)
76	CAP-M-H/L	O	High/normal speed selection signal output of the capstan motor (M1) “L”: normal speed, “H”: high speed

\*1 Table motor (M201) control

Terminal \ Mode	Stop	Counter-clockwise	Clockwise	Brake
TBL-L (pin 63)	“H”	“L”	“H”	“L”
TBL-R (pin 65)	“H”	“H”	“L”	“L”

Pin No.	Pin Name	I/O	Description
77	AMS-IN	I	Whether a music is present or not from HA12215F (IC301) is detected at automatic music sensor “L”: music is present, “H”: music is not present
78	TC-MUTE	O	Line muting on/off selection signal output to the HA12215F (IC301) “L”: muting off, “H”: muting on
79	R/PB/PAS	O	Recording/playback/pass selection signal output to the HA12215F (IC301) “L”: recording mode, “H”: pass, “Hi-z”: playback mode
80	NR-ON/OFF	O	Dolby NR on/off selection signal output to the HA12215F (IC301) “L”: dolby off, “H”: dolby on
81	REC-MUTE	O	Recording muting on/off selection signal output to the HA12215F (IC301) “L”: muting on, “H”: muting off
82	BIAS	O	Recording bias on/off selection signal output to the HA12215F (IC301) “L”: bias off, “H”: bias on
83	EQ-H/ $\overline{N}$	O	Normal/high speed selection signal output to the HA12215F (IC301) “L”: normal speed, “H”: high speed
84	PB- $\overline{A}$ /B	O	Deck-A/B selection signal output to the HA12215F (IC301) “L”: deck-A, “H”: deck-B
85	ALC	O	Automatic limiter control signal output to the HA12215F (IC301) “L”: limiter on
86	B-PLAY-SW	I	Detection signal input from the deck- B play detect switch (S1002) “H”: deck-B play
87	A-PLAY-SW	I	Detection signal input from the deck- A play detect switch (S1001) “H”: deck-A play
88	A-HALF	I	Detection signal input from the deck-A cassette detect switch (S1003) “L”: no cassette, “H”: cassette in
89	B-HALF	I	Detection signal input from the deck-B half detect switch (S1006)
90	B-SHUT	I	Shut off detection signal input from the deck-B side reel pulse detector (IC1002)
91	A-SHUT	I	Shut off detection signal input from the deck-A side reel pulse detector (IC1001)
92	SOFT-TEST	O	Output terminal for the software test (open)
93	$\overline{HP}$ MUTE	O	Headphone muting control signal output “L”: muting on, “H”: muting off
94	KEY/CD-ADJ	I	Setting terminal for the CD adjustment mode Not used (fixed at “L”)
95	MODEL-IN	I	Model setting terminal
96	AVSS	—	Ground terminal (for A/D conversion)
97	SPEC-IN	I	Destination setting terminal
98	VREF	I	Reference voltage (+5V) input terminal
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	TC-RELAY	O	Recording/playback selection signal output to the REC/PB switch (IC602) “L”: playback, “H”: recording

• **PANEL FL BOARD IC601 TMP88CP76F-1B71 (FLUORESCENT INDICATOR TUBE DRIVER, KEY CONTROL)**

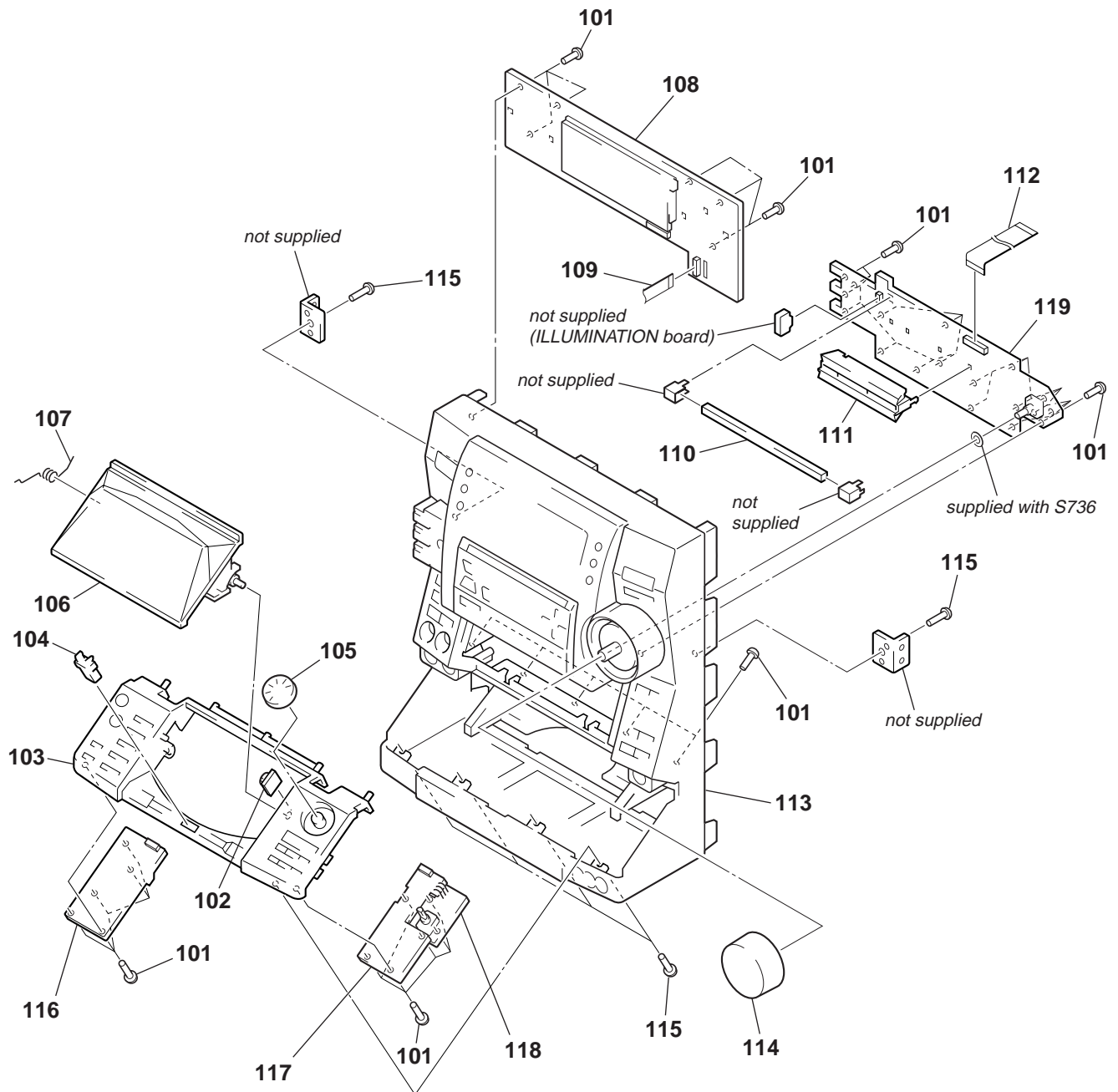
Pin No.	Pin Name	I/O	Description
1	SIRCS	I	Remote control signal input from the remote control receiver (IC702)
2	KEY POWER SAVE/DEMO	I	Power save/demonstration switch (S609 POWER SAVE/DEMO (STANDBY)) input terminal “L” is input when key pressing
3	LED SCK	O	Serial data transfer clock signal output to the LED driver (IC701)
4	KEY POWER ON/OFF	I	Power on/off switch (S608 I/⏻) input terminal “L” is input when key pressing
5	LED DAT	O	Serial data output to the LED driver (IC701)
6	LED LATCH	O	Serial data latch pulse signal output to the LED driver (IC701)
7	LED SEL	O	LED selection signal output
8	WAKE UP	O	Wakeup control signal output to the system controller (IC501) “L” active
9	VOL A	I	Jog dial pulse input from the rotary encoder (S736 VOLUME) (A phase input)
10	VOL B	I	Jog dial pulse input from the rotary encoder (S736 VOLUME) (B phase input)
11	KEY 0	I	Key input terminal (A/D input) S601 to S607, S727 to S732 (DISPLAY, SPECTRUM ANALYZER, TIMER SELECT, SLEEP, c/CLOCK SET, GAME, FUNCTION, ROCK, MOVIE, REGGAE, MIC GUITAR/KARAOKE, GUITAR DISTORTION, PTY, PRO LOGIC, DVD 5.1CH) keys input (S732 PTY key: used for the HCD-XG900AV)
12	KEY 1	I	Key input terminal (A/D input) S621 to S627, S743 to S750 (▷, ◁, ■, ◀◀ AMS ▶▶ ▶▶/▶▶, DOLBY NR, DIRECTION, FLASH, EDIT, NON-STOP, DISC1/2/3/4/5) keys input
13	KEY 2	I	Key input terminal (A/D input) S615 to S619, S716 to S726 (◁, ▷, ■, ◀◀ AMS ▶▶ ▶▶/▶▶, GUITAR, JAZZ, SAMBA, DANCE, TANGO, SALSA, GAME, ◀, ▲, ▼, ▶) keys input
14	KEY 3	I	Key input terminal (A/D input) S701 to S710, S712 to S715, S741 (TUNER MEMORY, ENTER/TEXT, –, TUNER/BAND, +, STEREO/MONO, TUNING MODE, ENTER, P.FILE, FLAT, DSP, GROOVE, SUPER WOOFER, SUPER WOOFER MODE, LOOP) keys input
15	KEY 4	I	Key input terminal (A/D input) S611 to S614, S751 to S757 (■, ● REC, H SPEED DUB, CD SYNC, ▷■, ■, ◀◀, ▶▶, DISC SKIP, REPEAT, PLAY MODE) keys input
16	GUITAR DISTORTION	O	Distortion on/off control signal output
17	BPF 0	I	Spectrum analyzer drive (super low frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 40 Hz)
18	BPF 1	I	Spectrum analyzer drive (low frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 100 Hz)
19	BPF 2	I	Spectrum analyzer drive (low and middle frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 400 Hz)
20	BPF 3	I	Spectrum analyzer drive (middle and high frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 2 kHz)
21	BPF 4	I	Spectrum analyzer drive (high frequency) signal input from the spectrum analyzer band-pass filter (IC602) (for 6 kHz)
22	ALL BAND	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC602) (for VACS, non-stop signal)
23	VSS	—	Ground terminal
24	VASS	—	Ground terminal (for A/D conversion)
25	VAREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
26	VDD	—	Power supply terminal (+5V)
27, 28	GR-16, GR-15	O	Grid drive signal output to the fluorescent indicator tube (FL601)
29 to 40	GR-14 to GR-3	O	Grid drive signal output to the fluorescent indicator tube (FL601)
41	VDD VFT	—	Power supply terminal (+5V)
42	GR-2	O	Grid drive signal output to the fluorescent indicator tube (FL601)
43	GR-1	O	Grid drive signal output to the fluorescent indicator tube (FL601)

Pin No.	Pin Name	I/O	Description
44 to 66	SEG-1 to SEG-23	O	Segment drive signal output to the fluorescent indicator tube (FL601)
67	LED STANDBY	O	LED drive signal output of the I/Ⓛ indicator (D601) “H”: LED on
68	VKK	—	Power supply terminal (–35V) (for fluorescent indicator tube drive)
69	VDD	—	Power supply terminal (+5V)
70	XIN	I	System clock input terminal (12.5 MHz)
71	VSS	—	Ground terminal
72	XOUT	O	System clock output terminal (12.5 MHz)
73	<u>RESET</u>	I	System reset signal input from the reset signal generator (IC801) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
74	JOG A	I	Jog dial pulse input from the rotary encoder (S763 JOG DIAL) (A phase input)
75	JOG B	I	Jog dial pulse input from the rotary encoder (S763 JOG DIAL) (B phase input)
76	TEST	I	Connected to ground
77	—	—	Not used (open)
78	I2C DATA	I/O	Communication data bus with the system controller (IC501)
79	I2C CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the system controller (IC501)
80	D-SW	I	CD door open/close detection switch (S742) input terminal “L”: close, “H”: open



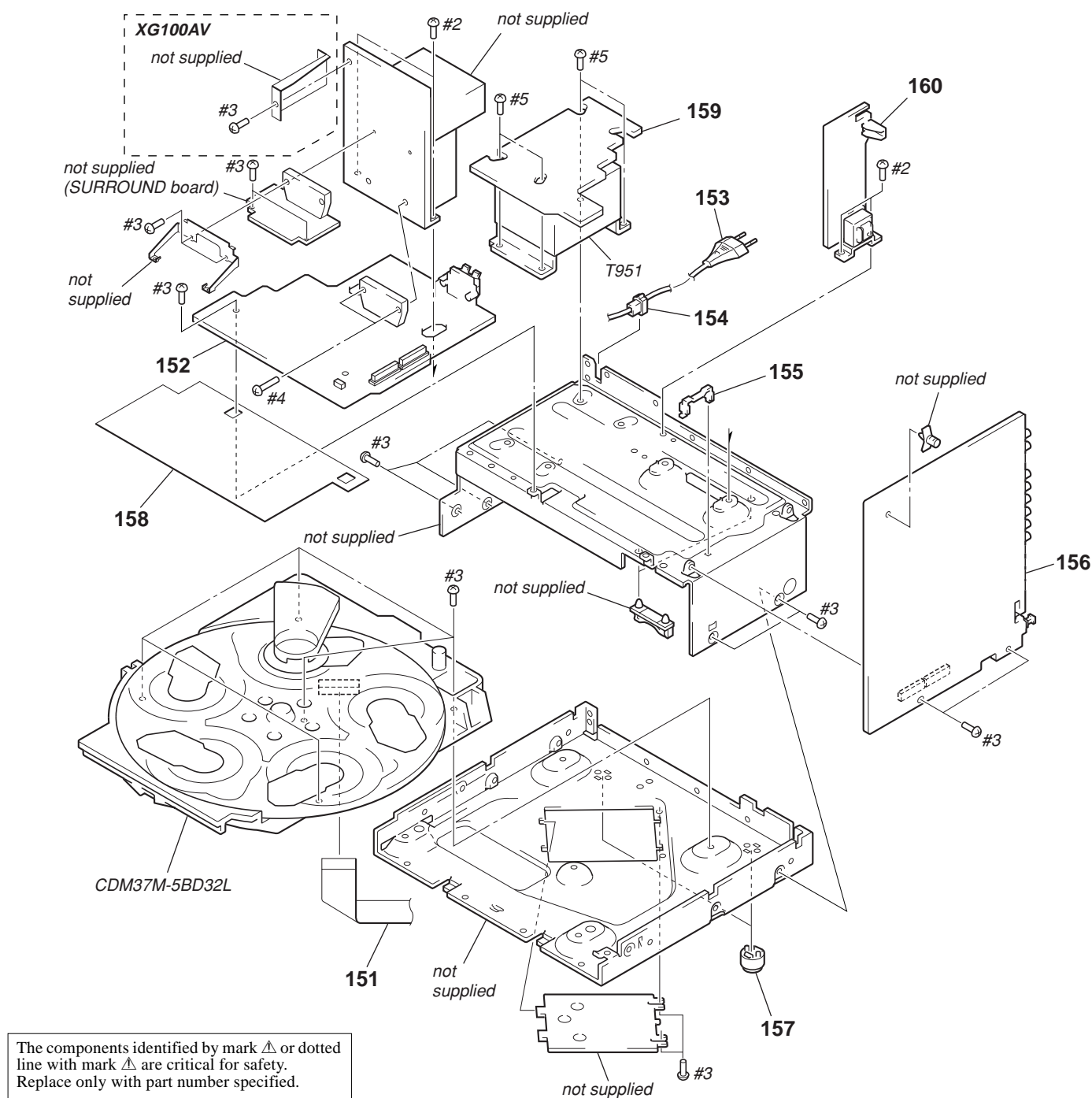
60

## 8-3. FRONT PANEL SECTION-2



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-951-620-01	SCREW (2.6X8), +BVTP		112	1-773-150-11	WIRE (FLAT TYPE) (21 CORE)	
102	4-224-104-11	DAMPER		113	X-4953-382-1	PANEL ASSY, FRONT (XG900AV)	
103	X-4953-374-1	PANEL (CD) ASSY, SUB		113	X-4953-383-1	PANEL ASSY, FRONT (XG100AV)	
104	4-040-472-01	LATCH, D. C.		114	4-232-066-01	KNOB (VOL)	
105	4-232-068-01	KNOB (CD)		115	4-951-620-11	SCREW (2.6X10), +BVTP	
106	X-4953-377-1	LID (CD) ASSY		116	1-680-177-11	CD-L BOARD	
107	4-232-086-01	SPRING (CD)		117	1-680-178-11	CD-R (1) BOARD	
108	A-4475-589-A	PANEL FL BOARD, COMPLETE		118	1-680-183-11	CD-R (2) BOARD	
109	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)		119	A-4475-710-A	PANEL VR BOARD, COMPLETE (XG100AV)	
110	4-232-072-01	INDICATOR (ILLUMI)		119	A-4475-729-A	PANEL VR BOARD, COMPLETE (XG900AV)	
111	4-232-078-01	HOLDER (LED)					

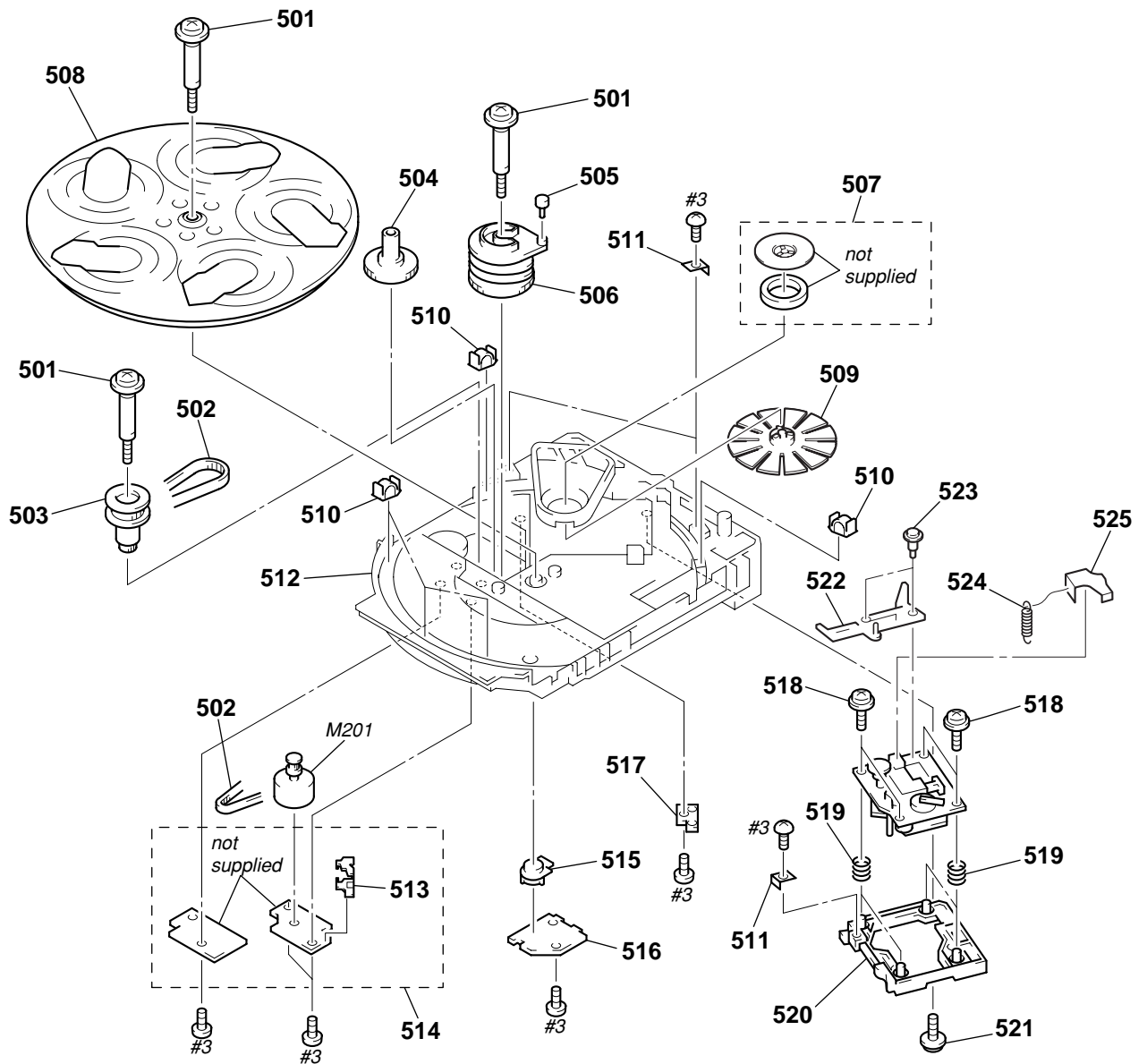
## 8-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
151	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)	
152	A-4475-707-A	PA BOARD, COMPLETE (E2, MX, AR)	
152	A-4475-732-A	PA BOARD, COMPLETE (AEP, UK)	
152	A-4476-046-A	PA BOARD, COMPLETE (EA, SP, AUS)	
Δ 153	1-575-653-11	CORD, POWER (MX)	
Δ 153	1-696-847-11	CORD, POWER (AUS)	
Δ 153	1-777-071-81	CORD, POWER (AEP, UK, EA, SP)	
Δ 153	1-783-941-12	CORD, POWER (AR)	
Δ 153	1-791-901-11	CORD, POWER (E2)	
154	3-703-244-00	BUSHING (FBS001), CORD (XG900AV)	
154	4-966-267-03	BUSHING (FBS001), CORD (XG100AV)	
* 155	4-988-533-01	HOLDER, PWB	

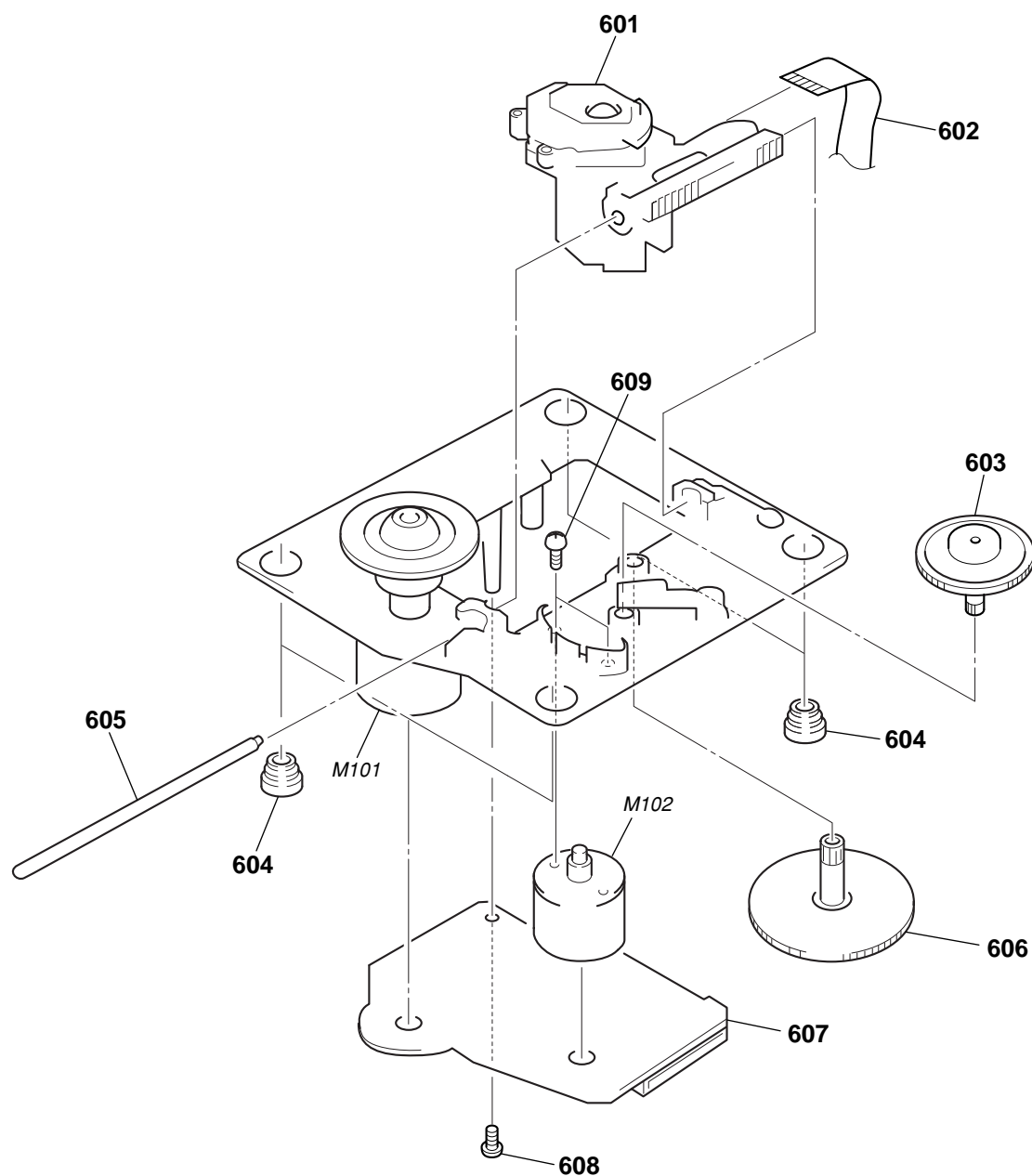
Ref. No.	Part No.	Description	Remark
156	A-4475-709-A	MAIN BOARD, COMPLETE (E2, AR)	
156	A-4475-733-A	MAIN BOARD, COMPLETE (AEP, UK)	
156	A-4476-036-A	MAIN BOARD, COMPLETE (EA)	
156	A-4476-048-A	MAIN BOARD, COMPLETE (SP, AUS)	
156	A-4476-075-A	MAIN BOARD, COMPLETE (MX)	
157	X-4941-228-1	FOOT (F22125H-M)	
158	4-235-701-01	DUST COVER	
159	1-680-174-11	TRANS BOARD	
160	1-680-175-11	SUB TRANS BOARD	
Δ T951	1-435-249-11	TRANSFORMER, POWER (XG100AV)	
Δ T951	1-435-801-11	TRANSFORMER, POWER (XG900AV)	

# 8-5. CD MECHANISM DECK SECTION (CDM37M-5BD32L)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-987-976-01	SCREW, STEP		* 514	A-4673-765-A	CD MOTOR BOARD, COMPLETE	
502	4-944-490-01	BELT (TIMING)		515	4-978-426-01	INDICATOR (NO.)	
503	A-4660-978-A	GEAR (PULLEY) ASSY		* 516	1-659-059-13	LED BOARD	
504	4-978-421-01	GEAR (MID)		* 517	1-659-058-13	TABLE SENSOR BOARD	
505	4-978-425-01	ROLLER (CAM)		518	4-985-672-01	SCREW (+PTPHM2.6), FLOATING	
506	4-978-420-01	CAM (HOLDER)		519	4-958-593-01	SPRING (BU), COMPRESSION	
507	1-452-925-21	MAGNET ASSY		* 520	4-978-419-01	HOLDER (BU-5)	
508	4-978-417-01	TABLE, DISC		521	4-998-716-01	SCREW, BU FITTING	
509	4-993-142-03	PULLEY (L), PRESS		522	4-989-493-01	SLIDER (37)	
510	X-4947-960-1	ROLLER ASSY		523	4-989-494-01	SCREW (SLIDER), STEP	
* 511	4-978-583-01	BRACKET (BU)		524	4-989-819-21	SPRING, TENSION	
512	4-978-418-01	CHASSIS		525	4-989-491-01	COVER, LENS	
* 513	4-980-385-01	HOLDER (SW)		M201	A-4660-977-A	MOTOR ASSY (TABLE) (CD)	

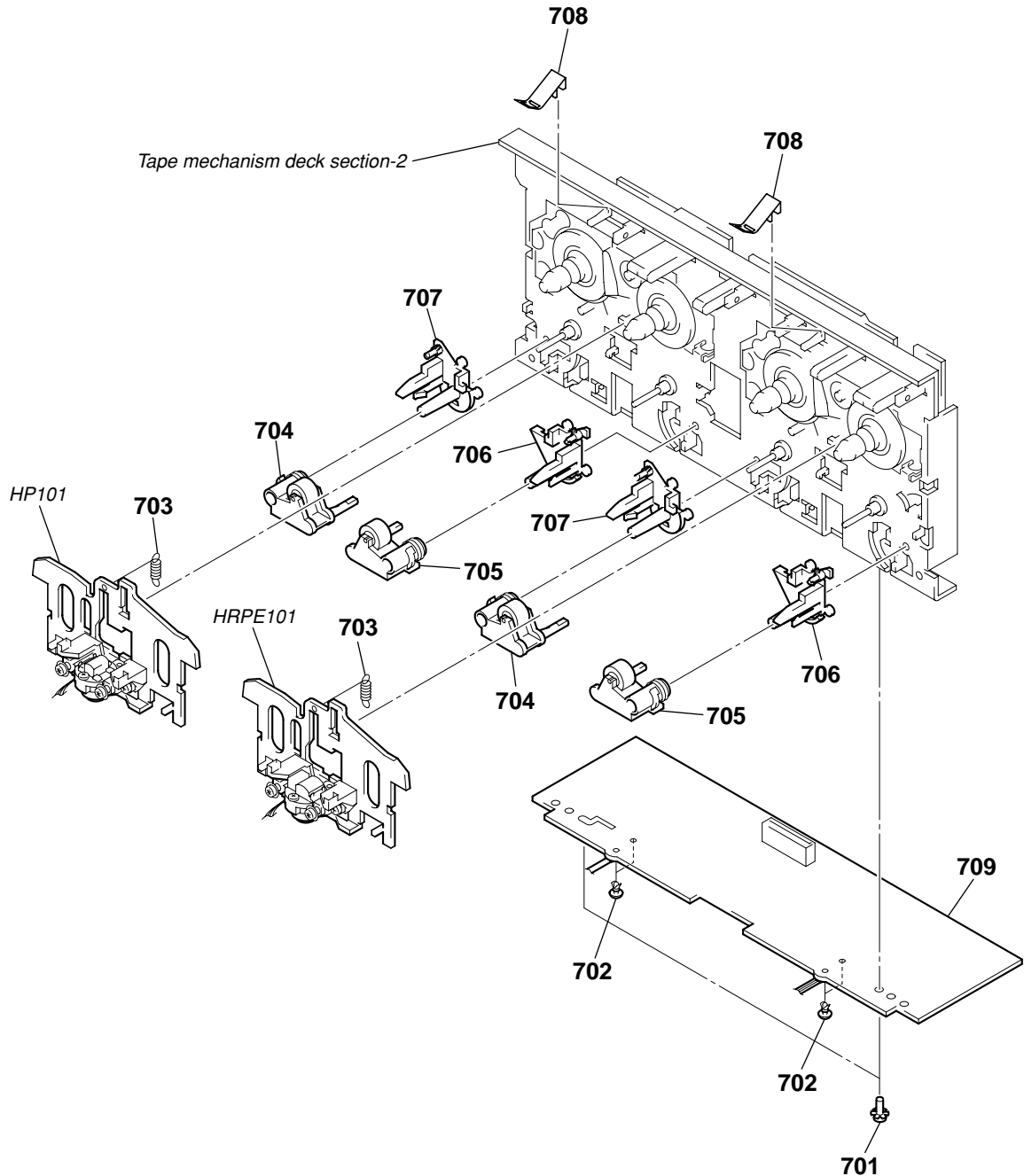
8-6. BASE UNIT SECTION  
(BU-5BD32L)



The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

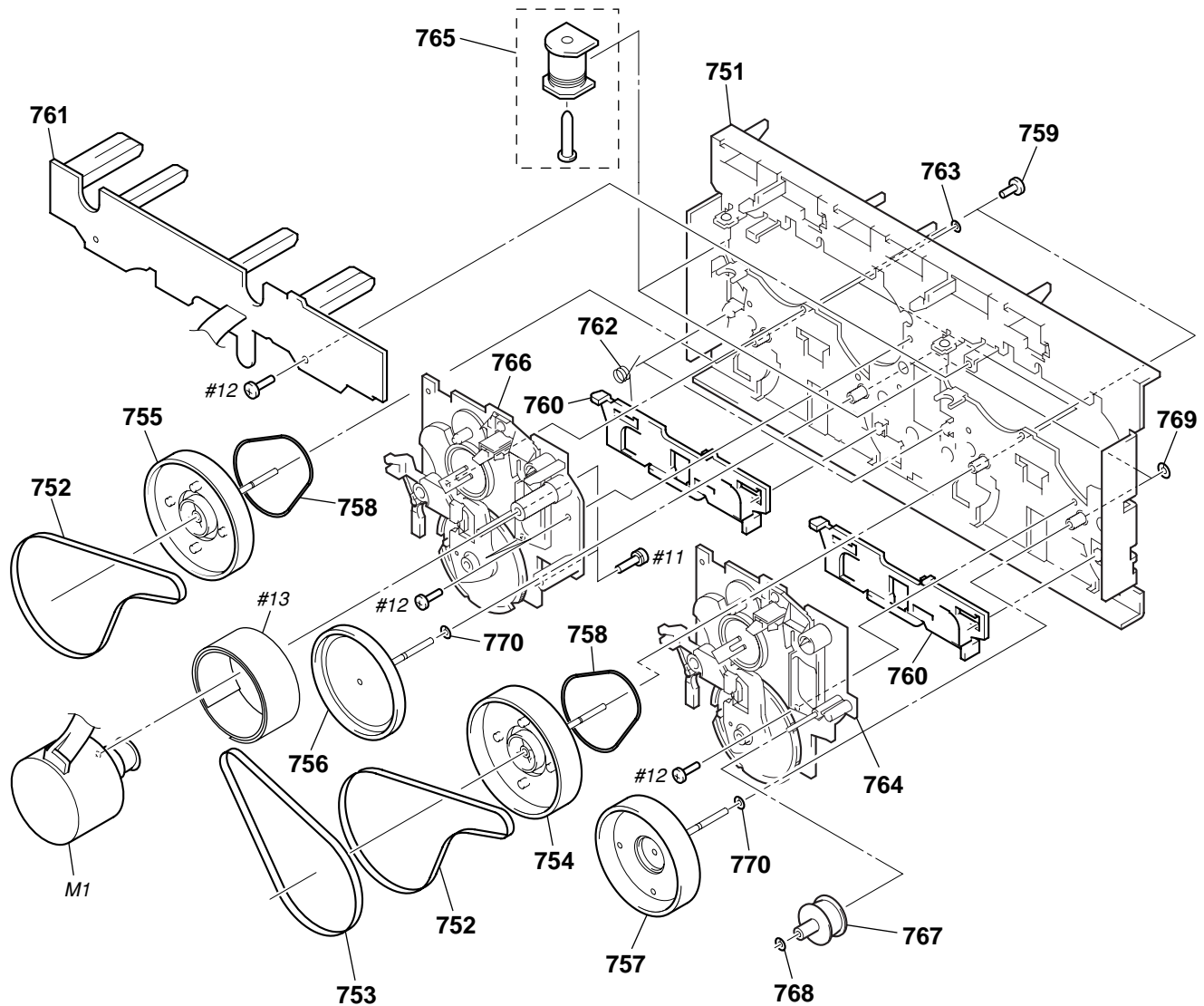
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
$\triangle$ 601	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-RP		607	A-4724-486-A	BD BOARD, COMPLETE	
602	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)		608	4-951-620-01	SCREW (2.6X8), +BVTP	
603	4-917-567-21	GEAR (M)		609	3-713-786-51	SCREW +P 2X3	
604	4-951-940-01	INSULATOR (BU)		M101	X-4917-523-3	MOTOR ASSY (SPINDLE) (CD)	
605	4-917-565-01	SHAFT, SLED		M102	X-4917-504-1	MOTOR ASSY (SLED) (CD)	
606	4-917-564-01	GEAR (P), FLATNESS					

# 8-7. TAPE MECHANISM DECK SECTION-1 (TCM-230PWR42)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
701	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		707	3-017-366-01	BASE (PINCH LEVER REV)	
702	3-911-116-42	RIVET, PUSH		708	3-016-567-02	SPRING (CASSETTE), LEAF	
703	3-016-574-01	SPRING (HEAD), TENSION		709	A-2007-849-A	AUDIO BOARD, COMPLETE	
704	X-3374-156-5	PINCH LEVER (REV) ASSY		HP101	A-2004-778-A	BASE (A) ASSY, HEAD	
705	X-3374-155-5	PINCH LEVER (FWD) ASSY		HRPE101A-2004-779-A	BASE (B) ASSY, HEAD		
706	3-017-365-01	BASE (PINCH LEVER FWD)					

## 8-8. TAPE MECHANISM DECK SECTION-2 (TCM-230PWR42)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
751	X-4952-881-1	CHASSIS ASSY, MAIN		762	4-228-450-01	SPRING (REVERSE SLIDER), TORSION	
752	3-041-946-01	BELT (CAPSTAN B)		763	3-019-208-01	WASHER, STOPPER	
753	4-227-239-01	BELT (CAPSTAN C)		764	A-2004-795-A	CHASSIS (A) ASSY, SUB	
754	X-3378-247-1	FLYWHEEL (A-FWD) ASSY		765	1-454-887-21	SOLENOID, PLUNGER	
755	X-3378-249-1	FLYWHEEL (B-FWD) ASSY		766	A-2004-796-A	CHASSIS (B) ASSY, SUB	
756	X-3378-250-1	FLYWHEEL (B-REV) ASSY		767	3-040-580-11	PULLEY (TENSION)	
757	X-3378-248-1	FLYWHEEL (A-REV) ASSY		768	3-017-407-01	WASHER (FR LEVER), STOPPER	
758	3-041-947-01	BELT (FR)		769	3-359-464-41	WASHER (CAPSTAN)	
759	3-703-454-21	SCREW (1.7X6), TAPPING		770	3-359-464-11	WASHER (CAPSTAN)	
760	3-016-566-01	SLIDER, REVERSE		M1	X-3378-246-1	MOTOR ASSY (CAPSTAN) (TAPE)	
761	A-2007-852-A	LEAF SW BOARD, COMPLETE					



# HCD-XG100AV/XG900AV

**AUDIO**

**BD**

Ref. No.	Part No.	Description			Remark
R609	1-249-433-11	CARBON	22K	5%	1/4W
R611	1-249-409-11	CARBON	220	5%	1/4W
R612	1-249-409-11	CARBON	220	5%	1/4W
△ R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W
△ R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
< VARIABLE RESISTOR >					
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV341	1-241-768-11	RES, ADJ, CARBON 220K			
RV441	1-241-768-11	RES, ADJ, CARBON 220K			
< TRANSFORMER >					
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			
*****					
A-4724-486-A		BD BOARD, COMPLETE			
*****					
< CAPACITOR >					
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C104	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C109	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C110	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C112	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C113	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C114	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V
C117	1-126-209-11	ELECT CHIP	100uF	20%	4V
C118	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C119	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C121	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C122	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C123	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C124	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C125	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C126	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C127	1-128-065-11	ELECT CHIP	68uF	20%	10V
C128	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C129	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C130	1-164-346-11	CERAMIC CHIP	1uF		16V
C131	1-124-779-00	ELECT CHIP	10uF	20%	16V
C133	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C140	1-164-346-11	CERAMIC CHIP	1uF		16V
C141	1-164-346-11	CERAMIC CHIP	1uF		16V
C143	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C151	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C153	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C154	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C156	1-163-235-11	CERAMIC CHIP	22PF	5%	50V

Ref. No.	Part No.	Description	Remark			
C157	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C159	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C161	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C162	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
C163	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C165	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C167	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C168	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C171	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C172	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
C181	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C182	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
< CONNECTOR >						
CN101	1-778-874-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P				
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P				
< FERRITE BEAD >						
FB101	1-500-445-21	FERRITE	0uH			
FB103	1-500-445-21	FERRITE	0uH			
< IC >						
IC101	8-752-386-85	IC CXD2587Q				
IC102	8-759-549-28	IC BA5974FP-E2				
IC103	8-752-085-51	IC CXA2568M-T6				
< TRANSISTOR >						
Q101	8-729-010-08	TRANSISTOR	MSB710-R			
< RESISTOR >						
R101	1-216-077-00	RES-CHIP	15K	5%	1/10W	
R102	1-216-097-11	RES-CHIP	100K	5%	1/10W	
R103	1-216-077-00	RES-CHIP	15K	5%	1/10W	
R104	1-216-085-00	RES-CHIP	33K	5%	1/10W	
R105	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R106	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R107	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R108	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	
R109	1-216-121-11	RES-CHIP	1M	5%	1/10W	
R110	1-216-025-11	RES-CHIP	100	5%	1/10W	
R111	1-216-121-11	RES-CHIP	1M	5%	1/10W	
R113	1-216-121-11	RES-CHIP	1M	5%	1/10W	
R114	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R116	1-216-001-00	METAL CHIP	10	5%	1/10W	
R117	1-216-049-11	RES-CHIP	1K	5%	1/10W	
R119	1-216-041-00	METAL CHIP	470	5%	1/10W	
R123	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R124	1-216-097-11	RES-CHIP	100K	5%	1/10W	
R131	1-216-033-00	METAL CHIP	220	5%	1/10W	
R143	1-216-103-00	METAL CHIP	180K	5%	1/10W	
R144	1-216-103-00	METAL CHIP	180K	5%	1/10W	
R147	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R148	1-216-001-00	METAL CHIP	10	5%	1/10W	
R149	1-216-001-00	METAL CHIP	10	5%	1/10W	
R158	1-216-111-00	METAL CHIP	390K	5%	1/10W	
R159	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R161	1-216-308-00	METAL CHIP	4.7	5%	1/10W	

The components identified by mark △ or dotted line with mark △ are critical for safety.  
Replace only with part number specified.

						BD	CD MOTOR		CD-L	CD-R (1)							
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark						
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W			< LED >									
R171	1-216-078-00	RES-CHIP	16K	5%	1/10W												
R172	1-216-073-00	RES-CHIP	10K	5%	1/10W	D741	8-719-058-04	LED SEL5223S-TP15 (NON-STOP)									
R173	1-216-077-00	RES-CHIP	15K	5%	1/10W			< RESISTOR >									
R181	1-216-078-00	RES-CHIP	16K	5%	1/10W	R741	1-249-407-11	CARBON	150	5%	1/4W						
R182	1-216-073-00	RES-CHIP	10K	5%	1/10W	R742	1-249-438-11	CARBON	56K	5%	1/4W						
R183	1-216-077-00	RES-CHIP	15K	5%	1/10W	R743	1-249-420-11	CARBON	1.8K	5%	1/4W						
< NETWORK RESISTOR >						R744	1-249-422-11	CARBON	2.7K	5%	1/4W						
RN101	1-233-576-11	RES, CHIP NETWORK 100				R745	1-247-843-11	CARBON	3.3K	5%	1/4W						
RN102	1-233-576-11	RES, CHIP NETWORK 100				R746	1-249-425-11	CARBON	4.7K	5%	1/4W						
< SWITCH >						R747	1-249-427-11	CARBON	6.8K	5%	1/4W						
S101	1-572-085-11	SWITCH, LEAF (LIMIT)				R748	1-249-429-11	CARBON	10K	5%	1/4W						
< VIBRATOR >						R749	1-249-431-11	CARBON	15K	5%	1/4W						
X101	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)				R750	1-249-434-11	CARBON	27K	5%	1/4W						
*****																	
*	A-4673-765-A	CD MOTOR BOARD, COMPLETE				S741	1-762-875-21	SWITCH, KEYBOARD (LOOP)									
*****						S742	1-762-587-11	SWITCH, PUSH (1 KEY)				(LID (CD) OPEN/CLOSE)					
*	4-980-385-01	HOLDER (SW)				S743	1-762-875-21	SWITCH, KEYBOARD (FLASH)									
< CAPACITOR >						S744	1-762-875-21	SWITCH, KEYBOARD (EDIT)									
C201	1-126-964-11	ELECT	10uF	20%	50V	S745	1-762-875-21	SWITCH, KEYBOARD (NON-STOP)									
C202	1-164-159-21	CERAMIC	0.1uF		50V	S746	1-762-875-21	SWITCH, KEYBOARD (SIDC 1)									
C203	1-126-964-11	ELECT	10uF	20%	50V	S747	1-762-875-21	SWITCH, KEYBOARD (SIDC 2)									
< CONNECTOR >						S748	1-762-875-21	SWITCH, KEYBOARD (SIDC 3)									
* CN201	1-568-947-11	PIN, CONNECTOR 9P				S749	1-762-875-21	SWITCH, KEYBOARD (SIDC 4)									
< IC >						S750	1-762-875-21	SWITCH, KEYBOARD (SIDC 5)				*****					
IC201	8-759-365-94	IC TA8409S					1-680-178-11	CD-R (1) BOARD				*****					
< COIL >						< CONNECTOR >											
L201	1-408-117-00	INDUCTOR	10uH			CN703	1-785-333-11	PIN, CONNECTOR (LIGHT ANGLE) 7P									
< RESISTOR >						< LED >											
R205	1-249-427-11	CARBON	6.8K	5%	1/4W	D700	8-719-056-13	LED SML79423C-TP15 (▷■)									
R206	1-249-425-11	CARBON	4.7K	5%	1/4W	< RESISTOR >											
< SWITCH >						R751	1-249-415-11	CARBON	680	5%	1/4W						
S201	1-762-587-11	SWITCH, PUSH (1 KEY) (UP)				R752	1-249-417-11	CARBON	1K	5%	1/4W						
*****												R753	1-249-418-11	CARBON	1.2K	5%	1/4W
	1-680-177-11	CD-L BOARD				R754	1-249-420-11	CARBON	1.8K	5%	1/4W						
*****						R755	1-249-422-11	CARBON	2.7K	5%	1/4W						
< CAPACITOR >						R756	1-247-843-11	CARBON	3.3K	5%	1/4W						
C741	1-162-306-11	CERAMIC	0.01uF	30%	16V	R757	1-249-425-11	CARBON	4.7K	5%	1/4W						
< CONNECTOR >						R758	1-249-403-11	CARBON	68	5%	1/4W						
CN704	1-785-332-11	PIN, CONNECTOR (LIGHT ANGLE) 6P				R759	1-249-403-11	CARBON	68	5%	1/4W						
< SWITCH >						S751	1-762-875-21	SWITCH, KEYBOARD (▷■)									
						S752	1-762-875-21	SWITCH, KEYBOARD (■)									
						S753	1-762-875-21	SWITCH, KEYBOARD (◀◀)									
						S754	1-762-875-21	SWITCH, KEYBOARD (▶▶)									
						S755	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP)									
						S756	1-762-875-21	SWITCH, KEYBOARD (REPEAT)									
						S757	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE)				*****					

HCD-XG100AV/XG900AV

CD-R (2)	FRONT INPUT	HEADPHONES	ILLUMINATION	LEAF SW
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Ref. No.	Part No.	Description	Remark			
	1-680-183-11	CD-R (2) BOARD *****				
		< CAPACITOR >				
C751	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C752	1-162-306-11	CERAMIC	0.01uF	30%	16V	
		< ROTARY ENCODER >				
S763	1-473-393-11	ENCODER, ROTARY (JOG DIAL)	*****			
	1-680-180-11	FRONT INPUT BOARD *****				
		< CAPACITOR >				
C801	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C802	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C803	1-126-960-11	ELECT	1uF	20%	50V	
C811	1-162-282-31	CERAMIC	100PF	10%	50V	
C812	1-164-159-21	CERAMIC	0.1uF		50V	
		< NOISE FILTER >				
FL803	1-424-228-11	FILTER, NOISE				
		< JACK >				
J804	1-815-310-11	JACK, PIN 3P (GAME INPUT AUDIO/VIDEO)				
		< RESISTOR >				
R801	1-249-417-11	CARBON	1K	5%	1/4W	
R802	1-249-437-11	CARBON	47K	5%	1/4W	
R803	1-249-417-11	CARBON	1K	5%	1/4W	
R804	1-249-437-11	CARBON	47K	5%	1/4W	
R805	1-247-804-11	CARBON	75	5%	1/4W	
		*****				
	1-680-181-11	HEADPHONES BOARD *****				
		< CAPACITOR >				
C891	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C892	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C893	1-164-159-21	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
CN802	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P				
		< JACK >				
J803	1-770-226-11	JACK (LARGE TYPE) (PHONES)				
		< RESISTOR >				
R810	1-247-807-31	CARBON	100	5%	1/4W	
		*****				

Ref. No.	Part No.	Description	Remark			
		ILLUMINATION BOARD				
		*****				
		(Included in MAIN BOARD, COMPLETE)				
		< CAPACITOR >				
C791	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C792	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C793	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
		< CONNECTOR >				
CN791	1-770-011-41	CONNECTOR, BOARD TO BOARD 4P				
		< LED >				
D791	8-719-075-87	LED SECU3M02C (ILLUMINATION)				
*****						
		A-2007-852-A LEAF SW BOARD, COMPLETE				
		*****				
		< CAPACITOR >				
C1001	1-107-716-11	ELECT	33uF	20%	10V	
		< CONNECTOR >				
CN1001	1-784-459-11	CONNECTOR, FFC/FPC 17P				
		< DIODE >				
D1001	8-719-991-33	DIODE 1SS133T-77				
D1002	8-719-991-33	DIODE 1SS133T-77				
		< PHOTO INTERRUPTER >				
IC1001	8-749-014-38	PHOTO INTERRUPTER	SG-264			
IC1002	8-749-014-38	PHOTO INTERRUPTER	SG-264			
		< TRANSISTOR >				
Q1001	8-729-029-56	TRANSISTOR	DTA144ESA			
		< RESISTOR >				
R907	1-249-441-11	CARBON	100K	5%	1/4W	
R1001	1-249-409-11	CARBON	220	5%	1/4W	
R1002	1-249-409-11	CARBON	220	5%	1/4W	
R1003	1-249-414-11	CARBON	560	5%	1/4W	
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	
R1005	1-247-818-11	CARBON	300	5%	1/4W	
R1006	1-247-864-11	CARBON	24K	5%	1/4W	
R1007	1-247-852-11	CARBON	7.5K	5%	1/4W	
R1008	1-249-417-11	CARBON	1K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV1001	1-241-785-11	RES, ADJ, CARBON 10K				
RV1002	1-241-785-11	RES, ADJ, CARBON 10K				
		< SWITCH >				
S1001	1-570-953-11	SWITCH, PUSH (1 KEY) (DECK A PLAY)				
S1002	1-570-953-11	SWITCH, PUSH (1 KEY) (DECK B PLAY)				
S1003	1-771-333-11	SWITCH, LEAF (DECK A HALF)				
S1004	1-771-205-11	SWITCH, LEAF (DECK A 120/70)				
S1005	1-771-205-11	SWITCH, LEAF (DECK A REC)				

LEAF SW

LED

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
S1006	1-771-333-11	SWITCH, LEAF (DECK B HALF)				C169	1-130-479-00	MYLAR	0.0047uF	5%	50V
S1008	1-771-205-11	SWITCH, LEAF (DECK B 120/70)				C170	1-130-477-00	MYLAR	0.0033uF	5%	50V
S1009	1-771-205-11	SWITCH, LEAF (DECK B REC)				C171	1-126-964-11	ELECT	10uF	20%	50V
*****											
*	1-659-059-13	LED BOARD				C172	1-164-363-11	CERAMIC CHIP	560PF	5%	50V
		*****									
		< LED >				C173	1-136-169-00	FILM	0.22uF	5%	50V
						C174	1-136-169-00	FILM	0.22uF	5%	50V
						C175	1-126-964-11	ELECT	10uF	20%	50V
						C176	1-130-493-00	MYLAR	0.068uF	5%	50V
						C177	1-130-483-00	MYLAR	0.01uF	5%	50V
D201	8-719-032-98	LED SEL5820A (DISC No.)				C181	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< TRANSISTOR >				C182	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C183	1-164-156-11	CERAMIC CHIP	0.1uF		25V
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE				C191	1-162-974-11	CERAMIC CHIP	0.01uF		50V
		< RESISTOR >				C192	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R201	1-249-433-11	CARBON 22K 5% 1/4W				C193	1-126-964-11	ELECT	10uF	20%	50V
R202	1-249-411-11	CARBON 330 5% 1/4W				C201	1-126-964-11	ELECT	10uF	20%	50V
R203	1-249-437-11	CARBON 47K 5% 1/4W				C202	1-126-964-11	ELECT	10uF	20%	50V
*****											
	A-4475-709-A	MAIN BOARD, COMPLETE (E2, AR)				C203	1-126-959-11	ELECT	0.47uF	20%	50V
	A-4475-733-A	MAIN BOARD, COMPLETE (AEP, UK)				C204	1-126-959-11	ELECT	0.47uF	20%	50V
	A-4476-036-A	MAIN BOARD, COMPLETE (EA)									
	A-4476-048-A	MAIN BOARD, COMPLETE (SP, AUS)				C207	1-126-959-11	ELECT	0.47uF	20%	50V
	A-4476-075-A	MAIN BOARD, COMPLETE (MX)				C208	1-126-959-11	ELECT	0.47uF	20%	50V
		*****				C209	1-126-959-11	ELECT	0.47uF	20%	50V
		(Including ILLUMINATION BOARD)				C210	1-126-959-11	ELECT	0.47uF	20%	50V
						C211	1-126-959-11	ELECT	0.47uF	20%	50V
	4-875-327-31	HEAT SINK									
	4-948-236-21	CUSHION (107)				C212	1-126-959-11	ELECT	0.47uF	20%	50V
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S				C213	1-136-165-00	FILM	0.1uF	5%	50V
		< CAPACITOR >				C214	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C215	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C111	1-137-195-11	FILM 0.56uF 5% 50V				C216	1-126-960-11	ELECT	1uF	20%	50V
C112	1-130-488-00	MYLAR 0.027uF 5% 50V									
C113	1-136-167-00	FILM 0.15uF 5% 50V				C217	1-130-479-00	MYLAR	0.0047uF	5%	50V
C114	1-130-480-00	MYLAR 0.0056uF 5% 50V				C218	1-130-471-00	MYLAR	0.001uF	5%	50V
C115	1-130-489-00	MYLAR 0.033uF 5% 50V				C219	1-136-165-00	FILM	0.1uF	5%	50V
						C220	1-136-169-00	FILM	0.22uF	5%	50V
C116	1-130-473-00	MYLAR 0.0015uF 5% 50V				C221	1-136-169-00	FILM	0.22uF	5%	50V
C117	1-130-483-00	MYLAR 0.01uF 5% 50V									
C118	1-162-959-11	CERAMIC CHIP 330PF 5% 50V				C222	1-136-165-00	FILM	0.1uF	5%	50V
C119	1-130-479-00	MYLAR 0.0047uF 5% 50V				C223	1-130-479-00	MYLAR	0.0047uF	5%	50V
C120	1-130-477-00	MYLAR 0.0033uF 5% 50V				C224	1-130-471-00	MYLAR	0.001uF	5%	50V
						C225	1-126-960-11	ELECT	1uF	20%	50V
C121	1-126-964-11	ELECT 10uF 20% 50V				C226	1-130-480-00	MYLAR	0.0056uF	5%	50V
C122	1-164-363-11	CERAMIC CHIP 560PF 5% 50V									
C123	1-136-169-00	FILM 0.22uF 5% 50V				C227	1-136-161-00	FILM	0.047uF	5%	50V
C124	1-136-169-00	FILM 0.22uF 5% 50V				C228	1-136-175-00	FILM	0.68uF	5%	50V
C125	1-126-964-11	ELECT 10uF 20% 50V				C229	1-136-169-00	FILM	0.22uF	5%	50V
						C230	1-136-169-00	FILM	0.22uF	5%	50V
C131	1-104-660-11	ELECT 47uF 20% 16V				C231	1-126-963-11	ELECT	4.7uF	20%	50V
C132	1-104-660-11	ELECT 47uF 20% 16V									
C135	1-126-964-11	ELECT 10uF 20% 50V				C232	1-126-963-11	ELECT	4.7uF	20%	50V
C161	1-137-195-11	FILM 0.56uF 5% 50V				C233	1-136-169-00	FILM	0.22uF	5%	50V
C162	1-130-488-00	MYLAR 0.027uF 5% 50V				C234	1-136-169-00	FILM	0.22uF	5%	50V
						C235	1-136-165-00	FILM	0.1uF	5%	50V
C163	1-136-167-00	FILM 0.15uF 5% 50V				C236	1-136-161-00	FILM	0.047uF	5%	50V
C164	1-130-480-00	MYLAR 0.0056uF 5% 50V									
C165	1-130-489-00	MYLAR 0.033uF 5% 50V				C237	1-136-161-00	FILM	0.047uF	5%	50V
C166	1-130-473-00	MYLAR 0.0015uF 5% 50V				C238	1-136-165-00	FILM	0.1uF	5%	50V
C167	1-130-483-00	MYLAR 0.01uF 5% 50V				C239	1-136-165-00	FILM	0.1uF	5%	50V
						C240	1-136-157-00	FILM	0.022uF	5%	50V
C168	1-162-959-11	CERAMIC CHIP 330PF 5% 50V				C241	1-136-157-00	FILM	0.022uF	5%	50V
						C242	1-136-165-00	FILM	0.1uF	5%	50V
						C243	1-130-469-00	MYLAR	680PF	5%	50V
						C244	1-136-153-00	FILM	0.01uF	5%	50V
						C245	1-136-153-00	FILM	0.01uF	5%	50V

# HCD-XG100AV/XG900AV

## MAIN

Ref. No.	Part No.	Description			Remark
C246	1-130-469-00	MYLAR	680PF	5%	50V
C247	1-136-153-00	FILM	0.01uF	5%	50V
C248	1-136-153-00	FILM	0.01uF	5%	50V
C249	1-104-660-91	ELECT	47uF	20%	16V
C250	1-130-481-00	MYLAR	0.0068uF	5%	50V
C251	1-126-963-11	ELECT	4.7uF	20%	50V
C252	1-126-934-11	ELECT	220uF	20%	16V
C253	1-126-934-11	ELECT	220uF	20%	16V
C255	1-126-964-11	ELECT	10uF	20%	50V
C256	1-126-964-11	ELECT	10uF	20%	50V
C257	1-126-964-11	ELECT	10uF	20%	50V
C258	1-126-964-11	ELECT	10uF	20%	50V
C259	1-126-964-11	ELECT	10uF	20%	50V
C260	1-126-964-11	ELECT	10uF	20%	50V
C261	1-126-964-11	ELECT	10uF	20%	50V
C262	1-126-964-11	ELECT	10uF	20%	50V
C264	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-126-960-11	ELECT	1uF	20%	50V
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V
C303	1-136-165-00	FILM	0.1uF	5%	50V
C304	1-136-165-00	FILM	0.1uF	5%	50V
C305	1-126-964-11	ELECT	10uF	20%	50V
C306	1-126-960-11	ELECT	1uF	20%	50V
C307	1-126-959-11	ELECT	0.47uF	20%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-137-194-11	FILM	0.47uF	5%	50V
C310	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-959-11	ELECT	0.47uF	20%	50V
C313	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C314	1-126-964-11	ELECT	10uF	20%	50V
C315	1-126-963-11	ELECT	4.7uF	20%	50V
C316	1-104-660-11	ELECT	47uF	20%	16V
C317	1-104-660-11	ELECT	47uF	20%	16V
C320	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C333	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C334	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C351	1-126-960-11	ELECT	1uF	20%	50V
C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C353	1-136-165-00	FILM	0.1uF	5%	50V
C354	1-136-165-00	FILM	0.1uF	5%	50V
C355	1-126-964-11	ELECT	10uF	20%	50V
C356	1-126-960-11	ELECT	1uF	20%	50V
C357	1-126-959-11	ELECT	0.47uF	20%	50V
C358	1-126-964-11	ELECT	10uF	20%	50V
C359	1-137-194-11	FILM	0.47uF	5%	50V
C401	1-126-961-11	ELECT	2.2uF	20%	50V
C411	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C413	1-126-916-11	ELECT	1000uF	20%	6.3V
C414	1-126-916-11	ELECT	1000uF	20%	6.3V
C416	1-126-935-11	ELECT	470uF	20%	10V
C431	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C451	1-126-961-11	ELECT	2.2uF	20%	50V
C510	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C511	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C516	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C562	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C564	1-104-660-11	ELECT	47uF	20%	16V
C598	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C599	1-104-660-11	ELECT	47uF	20%	16V
C601	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C602	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C603	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C604	1-126-961-11	ELECT	2.2uF	20%	50V
C604	1-126-963-11	ELECT	4.7uF	20%	(XG100AV) 50V (XG900AV)
C605	1-130-479-00	MYLAR	0.0047uF	5%	50V
C606	1-130-473-00	MYLAR	0.0015uF	5%	50V
C607	1-136-159-00	FILM	0.033uF	5%	50V
C607	1-136-165-00	FILM	0.1uF	5%	(XG100AV) 50V (XG900AV)
C608	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C609	1-126-933-11	ELECT	100uF	20%	16V
C651	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C652	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C653	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C654	1-126-961-11	ELECT	2.2uF	20%	50V (XG100AV)
C654	1-126-963-11	ELECT	4.7uF	20%	50V (XG900AV)
C655	1-130-479-00	MYLAR	0.0047uF	5%	50V
C656	1-130-473-00	MYLAR	0.0015uF	5%	50V
C657	1-136-159-00	FILM	0.033uF	5%	50V
C657	1-136-165-00	FILM	0.1uF	5%	(XG100AV) 50V (XG900AV)
C658	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C659	1-126-933-11	ELECT	100uF	20%	16V
C698	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C699	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C701	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C702	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C703	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C704	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (AEP, UK, MX)
C705	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (AEP, UK, MX)
C711	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C712	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C713	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C721	1-126-960-11	ELECT	1uF	20%	50V
C722	1-126-926-11	ELECT	1000uF	20%	10V
C723	1-126-960-11	ELECT	1uF	20%	50V
C724	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C731	1-126-964-11	ELECT	10uF	20%	50V
C732	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C733	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C751	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C752	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C753	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C761	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C762	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C763	1-162-960-11	CERAMIC CHIP	220PF	10%	50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C772	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D803	8-719-988-61	DIODE 1SS355TE-17	
C774	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D804	8-719-988-61	DIODE 1SS355TE-17	
C775	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D805	8-719-988-61	DIODE 1SS355TE-17	
C776	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D806	8-719-988-61	DIODE 1SS355TE-17	
C777	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D807	8-719-988-61	DIODE 1SS355TE-17	
C782	1-104-660-11	ELECT	47uF 20% 16V	D808	8-719-210-33	DIODE EC10DS2	
C803	1-126-964-11	ELECT	10uF 20% 50V	D911	8-719-988-61	DIODE 1SS355TE-17	
C804	1-136-165-00	FILM	0.1uF 5% 50V	D912	8-719-210-33	DIODE EC10DS2	
C805	1-136-165-00	FILM	0.1uF 5% 50V	D913	8-719-210-33	DIODE EC10DS2	
C806	1-126-916-11	ELECT	1000uF 20% 6.3V	D931	8-719-210-33	DIODE EC10DS2	
C808	1-109-953-11	ELECT	2.2uF 20% 50V	D951	8-719-988-61	DIODE 1SS355TE-17	
C902	1-126-937-11	ELECT	4700uF 20% 16V			< FERRITE BEAD >	
C903	1-126-964-11	ELECT	10uF 20% 50V	FB412	1-414-772-11	FERRITE 0uH	
C904	1-126-964-11	ELECT	10uF 20% 50V	FB413	1-414-551-11	FERRITE 0uH	
C905	1-126-935-11	ELECT	470uF 20% 10V	FB415	1-414-772-11	FERRITE 0uH	
C911	1-126-964-11	ELECT	10uF 20% 50V			< FILTER >	
C912	1-126-916-11	ELECT	1000uF 20% 6.3V	FL201	1-233-289-21	FILTER, EMI (SMD)	
C913	1-104-660-11	ELECT	47uF 20% 16V	FL501	1-233-289-21	FILTER, EMI (SMD)	
C914	1-126-916-11	ELECT	1000uF 20% 6.3V	FL502	1-233-289-21	FILTER, EMI (SMD)	
C932	1-126-964-11	ELECT	10uF 20% 50V	FL503	1-233-289-21	FILTER, EMI (SMD)	
C933	1-126-933-11	ELECT	100uF 20% 16V			< IC >	
C934	1-126-964-11	ELECT	10uF 20% 50V	IC101	8-759-571-54	IC M62493FP	
C935	1-126-767-11	ELECT	1000uF 20% 16V	IC181	8-759-009-06	IC MC14052BF	
C936	1-126-964-11	ELECT	10uF 20% 50V	IC191	8-759-571-53	IC BA7615N	
C937	1-126-933-11	ELECT	100uF 20% 16V	IC201	8-759-571-51	IC M62464FP	
C938	1-126-933-11	ELECT	100uF 20% 16V	IC301	8-759-495-26	IC HA12215F	
C952	1-126-943-11	ELECT	2200uF 20% 25V	IC501	8-759-827-40	IC M30622MAA-A92FP	
C953	1-126-964-11	ELECT	10uF 20% 50V	IC601	8-759-100-96	IC uPC4558G2	
C954	1-126-964-11	ELECT	10uF 20% 50V	IC781	8-749-923-04	IC TOTX178A (CD DIGITAL OUT OPTICAL)	
C955	1-126-935-11	ELECT	470uF 20% 10V	IC801	8-759-635-63	IC M51943BSL	
C961	1-164-156-11	CERAMIC CHIP	0.1uF 25V (XG100AV)	IC901	8-759-071-48	IC TA7807S	
		< CONNECTOR >		IC911	8-759-039-69	IC uPC7805AHF	
CN180	1-691-766-11	PLUG (MICRO CONNECTOR) 4P		IC931	8-759-604-38	IC M5F78M10L	
CN303	1-784-776-11	CONNECTOR, FFC 15P		IC932	8-759-088-08	IC uPC7812AHF	
CN304	1-784-778-11	CONNECTOR, FFC 17P		IC933	8-759-071-48	IC TA7807S	
CN411	1-784-780-11	CONNECTOR, FFC 19P		IC951	8-759-604-90	IC M5F7907L	
CN412	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P				< JACK >	
CN431	1-784-774-11	CONNECTOR, FFC 13P		J701	1-794-148-21	JACK, PIN 8P (PHONO IN, MD IN/OUT, VIDEO AUDIO IN)	
CN441	1-563-616-11	CONNECTOR, FLEXIBLE 13P (XG100AV)		J702	1-770-337-11	JACK, PIN 3P(VIDEO VIDEO IN, VIDEO OUT, DVD INPUT VIDEO)	
CN441	1-750-747-11	CONNECTOR, FFC/FPC 15P (XG900AV)		J703	1-779-599-11	JACK, PIN 6P (DVD INPUT FRONT/REAR/CENTER/WOOFER)	
CN452	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P		J704	1-770-377-31	JACK, PIN 1P (SUB WOOFER OUT)	
CN702	1-691-767-11	PLUG (MICRO CONNECTOR) 5P		J705	1-573-028-31	JACK, PIN 4P (DJ MIX RETURN/SEND) (AEP, UK, MX)	
CN901	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P				< SHORT >	
CN902	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P		JR1	1-216-295-11	SHORT 0	
CN903	1-564-506-11	PLUG, CONNECTOR 3P (XG100AV)		JR2	1-216-296-11	SHORT 0	
		< DIODE >		JR3	1-216-296-11	SHORT 0	
D191	8-719-988-61	DIODE 1SS355TE-17		JR4	1-216-295-11	SHORT 0	
D192	8-719-988-61	DIODE 1SS355TE-17		JR5	1-216-295-11	SHORT 0	
D193	8-719-988-61	DIODE 1SS355TE-17		JR6	1-216-296-11	SHORT 0	
D194	8-719-988-61	DIODE 1SS355TE-17		JR7	1-216-296-11	SHORT 0	
D201	8-719-988-61	DIODE 1SS355TE-17					
D501	8-719-988-61	DIODE 1SS355TE-17					
D534	8-719-988-61	DIODE 1SS355TE-17					
D801	8-719-988-61	DIODE 1SS355TE-17					
D802	8-719-988-61	DIODE 1SS355TE-17					

# HCD-XG100AV/XG900AV

## MAIN

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
JR8	1-216-296-11	SHORT	0				R116	1-216-842-11	METAL CHIP	56K	5%	1/16W	
JR9	1-216-295-11	SHORT	0				R117	1-216-833-11	METAL CHIP	10K	5%	1/16W	
JR11	1-216-296-11	SHORT	0				R118	1-216-841-11	METAL CHIP	47K	5%	1/16W	
JR191	1-216-295-11	SHORT	0				R119	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
JR594	1-216-295-11	SHORT	0				R120	1-216-845-11	METAL CHIP	100K	5%	1/16W	
JR703	1-216-295-11	SHORT	0				R121	1-216-833-11	METAL CHIP	10K	5%	1/16W	
JR901	1-216-295-11	SHORT	0				R122	1-216-295-11	SHORT	0			
JR910	1-216-296-11	SHORT	0				R123	1-216-850-11	METAL CHIP	270K	5%	1/16W	
< COIL >													
L201	1-412-032-11	INDUCTOR CHIP	100uH				R124	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
L781	1-412-032-11	INDUCTOR CHIP	100uH				R125	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
< TRANSISTOR >													
Q111	8-729-620-05	TRANSISTOR	2SC2603-EF				R126	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
Q112	8-729-620-05	TRANSISTOR	2SC2603-EF				R127	1-216-852-11	METAL CHIP	390K	5%	1/16W	
Q113	8-729-141-30	TRANSISTOR	2SC3623A-LK				R129	1-216-857-11	METAL CHIP	1M	5%	1/16W	
Q115	8-729-029-86	TRANSISTOR	DTC124ESA				R131	1-216-809-11	METAL CHIP	100	5%	1/16W	
Q161	8-729-620-05	TRANSISTOR	2SC2603-EF				R132	1-216-809-11	METAL CHIP	100	5%	1/16W	
Q162	8-729-620-05	TRANSISTOR	2SC2603-EF				R133	1-216-809-11	METAL CHIP	100	5%	1/16W	
Q163	8-729-141-30	TRANSISTOR	2SC3623A-LK				R161	1-216-833-11	METAL CHIP	10K	5%	1/16W	
Q165	8-729-029-86	TRANSISTOR	DTC124ESA				R162	1-216-857-11	METAL CHIP	1M	5%	1/16W	
Q271	8-729-141-30	TRANSISTOR	2SC3623A-LK				R163	1-216-848-11	METAL CHIP	180K	5%	1/16W	
Q281	8-729-141-30	TRANSISTOR	2SC3623A-LK				R164	1-216-818-11	METAL CHIP	560	5%	1/16W	
Q291	8-729-141-30	TRANSISTOR	2SC3623A-LK				R165	1-216-841-11	METAL CHIP	47K	5%	1/16W	
Q331	8-729-140-04	TRANSISTOR	2SB1116A-L				R166	1-216-842-11	METAL CHIP	56K	5%	1/16W	
Q332	8-729-029-86	TRANSISTOR	DTC124ESA				R167	1-216-833-11	METAL CHIP	10K	5%	1/16W	
Q333	8-729-140-04	TRANSISTOR	2SB1116A-L				R168	1-216-841-11	METAL CHIP	47K	5%	1/16W	
Q334	8-729-029-86	TRANSISTOR	DTC124ESA				R169	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
Q335	8-729-029-86	TRANSISTOR	DTC124ESA				R170	1-216-845-11	METAL CHIP	100K	5%	1/16W	
Q336	8-729-116-59	TRANSISTOR	2SB1068TP				R171	1-216-833-11	METAL CHIP	10K	5%	1/16W	
Q339	8-729-029-86	TRANSISTOR	DTC124ESA				R172	1-216-295-11	SHORT	0			
Q731	8-729-141-30	TRANSISTOR	2SC3623A-LK				R173	1-216-850-11	METAL CHIP	270K	5%	1/16W	
Q801	8-729-620-05	TRANSISTOR	2SC2603-EF				R174	1-216-833-11	METAL CHIP	10K	5%	1/16W	
Q802	8-729-029-40	TRANSISTOR	DTA124ESA				R175	1-216-845-11	METAL CHIP	100K	5%	1/16W	
Q803	8-729-029-40	TRANSISTOR	DTA124ESA				R177	1-216-852-11	METAL CHIP	390K	5%	1/16W	
Q804	8-729-029-40	TRANSISTOR	DTA124ESA				R178	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
Q901	8-729-040-20	TRANSISTOR	RT1P137L-TP				R179	1-216-857-11	METAL CHIP	1M	5%	1/16W	
Q902	8-729-029-40	TRANSISTOR	DTA124ESA				R201	1-216-809-11	METAL CHIP	100	5%	1/16W	
Q903	8-729-040-19	TRANSISTOR	RT1N137L-TP				R202	1-216-809-11	METAL CHIP	100	5%	1/16W	
Q904	8-729-029-86	TRANSISTOR	DTC124ESA				R203	1-216-817-11	METAL CHIP	470	5%	1/16W	
Q905	8-729-119-76	TRANSISTOR	2SA1175-HFE				R204	1-216-851-11	METAL CHIP	330K	5%	1/16W	
Q906	8-729-620-05	TRANSISTOR	2SC2603-EF				R205	1-216-841-11	METAL CHIP	47K	5%	1/16W	
Q911	8-729-040-20	TRANSISTOR	RT1P137L-TP				R206	1-216-847-11	METAL CHIP	150K	5%	1/16W	
Q912	8-729-029-86	TRANSISTOR	DTC124ESA				R207	1-218-892-11	METAL CHIP	75K	0.5%	1/16W	
Q913	8-729-040-20	TRANSISTOR	RT1P137L-TP				R208	1-216-841-11	METAL CHIP	47K	5%	1/16W	
Q914	8-729-029-86	TRANSISTOR	DTC124ESA				R209	1-216-847-11	METAL CHIP	150K	5%	1/16W	
Q931	8-729-040-20	TRANSISTOR	RT1P137L-TP				R210	1-218-892-11	METAL CHIP	75K	0.5%	1/16W	
Q932	8-729-029-86	TRANSISTOR	DTC124ESA				R211	1-216-845-11	METAL CHIP	100K	5%	1/16W	
Q961	8-729-620-05	TRANSISTOR	2SC2603-EF (XG100AV)				R212	1-216-845-11	METAL CHIP	100K	5%	1/16W	
Q962	8-729-140-04	TRANSISTOR	2SB1116A-L (XG100AV)				R213	1-216-845-11	METAL CHIP	100K	5%	1/16W	
< RESISTOR >													
R111	1-216-833-11	METAL CHIP	10K	5%	1/16W		R214	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R112	1-216-857-11	METAL CHIP	1M	5%	1/16W		R271	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
R113	1-216-848-11	METAL CHIP	180K	5%	1/16W		R272	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R114	1-216-818-11	METAL CHIP	560	5%	1/16W		R273	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R115	1-216-841-11	METAL CHIP	47K	5%	1/16W		R281	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
							R282	1-216-845-11	METAL CHIP	100K	5%	1/16W	
							R283	1-216-833-11	METAL CHIP	10K	5%	1/16W	
							R291	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	
							R292	1-216-845-11	METAL CHIP	100K	5%	1/16W	
							R293	1-216-833-11	METAL CHIP	10K	5%	1/16W	

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R301	1-216-839-11	METAL CHIP	33K	5%	1/16W		R519	1-216-809-11	METAL CHIP	100	5%	1/16W	
R302	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R520	1-216-809-11	METAL CHIP	100	5%	1/16W	
R303	1-216-809-11	METAL CHIP	100	5%	1/16W								(XG900AV)
R304	1-216-809-11	METAL CHIP	100	5%	1/16W		R521	1-216-809-11	METAL CHIP	100	5%	1/16W	
R305	1-216-825-11	METAL CHIP	2.2K	5%	1/16W								(XG900AV)
R306	1-216-832-11	METAL CHIP	8.2K	5%	1/16W		R522	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R307	1-216-832-11	METAL CHIP	8.2K	5%	1/16W		R523	1-216-809-11	METAL CHIP	100	5%	1/16W	
R308	1-216-829-11	METAL CHIP	4.7K	5%	1/16W								
R309	1-216-837-11	METAL CHIP	22K	5%	1/16W		R524	1-216-809-11	METAL CHIP	100	5%	1/16W	
R311	1-216-857-11	METAL CHIP	1M	5%	1/16W		R525	1-216-809-11	METAL CHIP	100	5%	1/16W	
R312	1-218-900-11	METAL CHIP	160K	0.5%	1/16W		R526	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R313	1-216-845-11	METAL CHIP	100K	5%	1/16W		R527	1-216-809-11	METAL CHIP	100	5%	1/16W	
R315	1-216-833-11	METAL CHIP	10K	5%	1/16W		R528	1-216-809-11	METAL CHIP	100	5%	1/16W	
R316	1-216-836-11	METAL CHIP	18K	5%	1/16W								
R317	1-216-833-11	METAL CHIP	10K	5%	1/16W		R529	1-216-809-11	METAL CHIP	100	5%	1/16W	
R318	1-216-833-11	METAL CHIP	10K	5%	1/16W		R530	1-216-809-11	METAL CHIP	100	5%	1/16W	
R319	1-216-852-11	METAL CHIP	390K	5%	1/16W		R532	1-216-809-11	METAL CHIP	100	5%	1/16W	
R321	1-216-826-11	METAL CHIP	2.7K	5%	1/16W		R533	1-216-809-11	METAL CHIP	100	5%	1/16W	
							R535	1-216-809-11	METAL CHIP	100	5%	1/16W	
R322	1-216-832-11	METAL CHIP	8.2K	5%	1/16W								
R332	1-216-819-11	METAL CHIP	680	5%	1/16W		R536	1-216-809-11	METAL CHIP	100	5%	1/16W	
R333	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R537	1-216-809-11	METAL CHIP	100	5%	1/16W	
R334	1-216-819-11	METAL CHIP	680	5%	1/16W		R538	1-216-809-11	METAL CHIP	100	5%	1/16W	
R335	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R540	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
							R541	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R340	1-216-841-11	METAL CHIP	47K	5%	1/16W								
R343	1-216-061-11	METAL CHIP	3.3K	5%	1/10W		R542	1-216-809-11	METAL CHIP	100	5%	1/16W	
R344	1-216-061-11	METAL CHIP	3.3K	5%	1/10W		R543	1-216-809-11	METAL CHIP	100	5%	1/16W	
R345	1-216-061-11	METAL CHIP	3.3K	5%	1/10W		R545	1-216-809-11	METAL CHIP	100	5%	1/16W	
R351	1-216-839-11	METAL CHIP	33K	5%	1/16W		R546	1-216-809-11	METAL CHIP	100	5%	1/16W	
							R547	1-216-809-11	METAL CHIP	100	5%	1/16W	
R352	1-216-825-11	METAL CHIP	2.2K	5%	1/16W								
R353	1-216-809-11	METAL CHIP	100	5%	1/16W		R548	1-216-809-11	METAL CHIP	100	5%	1/16W	
R354	1-216-809-11	METAL CHIP	100	5%	1/16W		R549	1-216-809-11	METAL CHIP	100	5%	1/16W	
R355	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		R550	1-216-809-11	METAL CHIP	100	5%	1/16W	
R356	1-216-832-11	METAL CHIP	8.2K	5%	1/16W		R551	1-216-809-11	METAL CHIP	100	5%	1/16W	
							R552	1-216-809-11	METAL CHIP	100	5%	1/16W	
R357	1-216-832-11	METAL CHIP	8.2K	5%	1/16W								
R358	1-216-829-11	METAL CHIP	4.7K	5%	1/16W		R553	1-216-809-11	METAL CHIP	100	5%	1/16W	
R359	1-216-839-11	METAL CHIP	33K	5%	1/16W		R554	1-216-809-11	METAL CHIP	100	5%	1/16W	
R371	1-216-841-11	METAL CHIP	47K	5%	1/16W		R555	1-216-809-11	METAL CHIP	100	5%	1/16W	
R372	1-216-829-11	METAL CHIP	4.7K	5%	1/16W		R556	1-216-809-11	METAL CHIP	100	5%	1/16W	
							R557	1-216-041-00	METAL CHIP	470	5%	1/10W	
R373	1-216-821-11	METAL CHIP	1K	5%	1/16W								
R374	1-216-841-11	METAL CHIP	47K	5%	1/16W		R558	1-216-809-11	METAL CHIP	100	5%	1/16W	
R375	1-218-892-11	METAL CHIP	75K	0.5%	1/16W		R559	1-216-809-11	METAL CHIP	100	5%	1/16W	
R376	1-216-829-11	METAL CHIP	4.7K	5%	1/16W		R561	1-216-809-11	METAL CHIP	100	5%	1/16W	
R377	1-216-841-11	METAL CHIP	47K	5%	1/16W		R563	1-216-809-11	METAL CHIP	100	5%	1/16W	
							R565	1-216-809-11	METAL CHIP	100	5%	1/16W	
R378	1-218-892-11	METAL CHIP	75K	0.5%	1/16W								
R401	1-216-809-11	METAL CHIP	100	5%	1/16W		R567	1-216-833-11	METAL CHIP	10K	5%	1/16W	
R402	1-216-827-11	METAL CHIP	3.3K	5%	1/16W		R568	1-216-809-11	METAL CHIP	100	5%	1/16W	
R413	1-216-295-11	SHORT	0				R569	1-216-809-11	METAL CHIP	100	5%	1/16W	
R414	1-216-295-11	SHORT	0				R570	1-216-841-11	METAL CHIP	47K	5%	1/16W	
							R572	1-216-809-11	METAL CHIP	100	5%	1/16W	
R451	1-216-809-11	METAL CHIP	100	5%	1/16W								
R452	1-216-827-11	METAL CHIP	3.3K	5%	1/16W		R573	1-216-809-11	METAL CHIP	100	5%	1/16W	
R501	1-216-809-11	METAL CHIP	100	5%	1/16W		R574	1-216-809-11	METAL CHIP	100	5%	1/16W	
R503	1-216-809-11	METAL CHIP	100	5%	1/16W		R575	1-216-809-11	METAL CHIP	100	5%	1/16W	
R504	1-216-809-11	METAL CHIP	100	5%	1/16W		R576	1-216-809-11	METAL CHIP	100	5%	1/16W	
							R577	1-216-809-11	METAL CHIP	100	5%	1/16W	
R505	1-216-809-11	METAL CHIP	100	5%	1/16W								
R511	1-216-851-11	METAL CHIP	330K	5%	1/16W		R578	1-216-809-11	METAL CHIP	100	5%	1/16W	
R513	1-216-295-11	SHORT	0				R579	1-216-809-11	METAL CHIP	100	5%	1/16W	
R517	1-216-833-11	METAL CHIP	10K	5%	1/16W		R580	1-216-809-11	METAL CHIP	100	5%	1/16W	
R518	1-216-809-11	METAL CHIP	100	5%	1/16W		R581	1-216-809-11	METAL CHIP	100	5%	1/16W	
							R582	1-216-809-11	METAL CHIP	100	5%	1/16W	

# HCD-XG100AV/XG900AV

## MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R583	1-216-809-11	METAL CHIP	100	5%	1/16W	R709	1-216-821-11	METAL CHIP	1K	5%	1/16W
R584	1-216-809-11	METAL CHIP	100	5%	1/16W					(AEP, UK, MX)	
R585	1-216-809-11	METAL CHIP	100	5%	1/16W	R710	1-216-821-11	METAL CHIP	1K	5%	1/16W
R586	1-216-809-11	METAL CHIP	100	5%	1/16W					(AEP, UK, MX)	
R587	1-216-809-11	METAL CHIP	100	5%	1/16W						
						R711	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R588	1-216-809-11	METAL CHIP	100	5%	1/16W	R712	1-216-833-11	METAL CHIP	10K	5%	1/16W
R589	1-216-809-11	METAL CHIP	100	5%	1/16W	R713	1-218-866-11	METAL CHIP	6.2K	0.5%	1/16W
R590	1-216-809-11	METAL CHIP	100	5%	1/16W	R714	1-216-833-11	METAL CHIP	10K	5%	1/16W
R591	1-216-809-11	METAL CHIP	100	5%	1/16W	R715	1-218-866-11	METAL CHIP	6.2K	0.5%	1/16W
R593	1-216-809-11	METAL CHIP	100	5%	1/16W						
						R716	1-216-833-11	METAL CHIP	10K	5%	1/16W
R594	1-216-833-11	METAL CHIP	10K	5%	1/16W	R717	1-216-845-11	METAL CHIP	100K	5%	1/16W
R595	1-216-841-11	METAL CHIP	47K	5%	1/16W					(AEP, UK, MX)	
R596	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	R718	1-216-845-11	METAL CHIP	100K	5%	1/16W
					(AEP, UK)					(AEP, UK, MX)	
R596	1-216-837-11	METAL CHIP	22K	5%	1/16W	R721	1-211-990-11	METAL CHIP	75	0.5%	1/16W
					(E2, MX, AR)	R722	1-216-804-11	METAL CHIP	39	5%	1/16W
R596	1-216-841-11	METAL CHIP	47K	5%	1/16W						
					(EA, SP, AUS)	R723	1-211-990-11	METAL CHIP	75	0.5%	1/16W
R597	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R724	1-216-833-11	METAL CHIP	10K	5%	1/16W
					(SP, AUS)	R731	1-216-833-11	METAL CHIP	10K	5%	1/16W
R597	1-216-839-11	METAL CHIP	33K	5%	1/16W	R732	1-216-821-11	METAL CHIP	1K	5%	1/16W
					(EA)	R733	1-216-845-11	METAL CHIP	100K	5%	1/16W
R597	1-216-841-11	METAL CHIP	47K	5%	1/16W	R734	1-216-821-11	METAL CHIP	1K	5%	1/16W
					(EXCEPT EA, SP, AUS)	R751	1-216-821-11	METAL CHIP	1K	5%	1/16W
R600	1-216-809-11	METAL CHIP	100	5%	1/16W	R752	1-216-845-11	METAL CHIP	100K	5%	1/16W
R601	1-216-821-11	METAL CHIP	1K	5%	1/16W	R753	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R754	1-216-845-11	METAL CHIP	100K	5%	1/16W
R602	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R603	1-216-841-11	METAL CHIP	47K	5%	1/16W	R755	1-216-821-11	METAL CHIP	1K	5%	1/16W
R604	1-216-820-11	METAL CHIP	820	5%	1/16W	R756	1-216-845-11	METAL CHIP	100K	5%	1/16W
					(XG900AV)	R761	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R604	1-216-821-11	METAL CHIP	1K	5%	1/16W	R762	1-216-833-11	METAL CHIP	10K	5%	1/16W
					(XG100AV)	R763	1-218-866-11	METAL CHIP	6.2K	0.5%	1/16W
R605	1-216-854-11	METAL CHIP	560K	5%	1/16W						
						R764	1-216-833-11	METAL CHIP	10K	5%	1/16W
R606	1-216-841-11	METAL CHIP	47K	5%	1/16W	R765	1-218-866-11	METAL CHIP	6.2K	0.5%	1/16W
R607	1-216-821-11	METAL CHIP	1K	5%	1/16W	R766	1-216-833-11	METAL CHIP	10K	5%	1/16W
R608	1-216-845-11	METAL CHIP	100K	5%	1/16W	R801	1-216-821-11	METAL CHIP	1K	5%	1/16W
R609	1-216-813-11	METAL CHIP	220	5%	1/16W	R802	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R651	1-216-821-11	METAL CHIP	1K	5%	1/16W						
						R803	1-216-809-11	METAL CHIP	100	5%	1/16W
R652	1-216-821-11	METAL CHIP	1K	5%	1/16W	R804	1-216-841-11	METAL CHIP	47K	5%	1/16W
R653	1-216-841-11	METAL CHIP	47K	5%	1/16W	R805	1-216-841-11	METAL CHIP	47K	5%	1/16W
R654	1-216-820-11	METAL CHIP	820	5%	1/16W	R806	1-216-833-11	METAL CHIP	10K	5%	1/16W
					(XG900AV)	R807	1-216-833-11	METAL CHIP	10K	5%	1/16W
R654	1-216-821-11	METAL CHIP	1K	5%	1/16W						
					(XG100AV)	R808	1-216-821-11	METAL CHIP	1K	5%	1/16W
R655	1-216-854-11	METAL CHIP	560K	5%	1/16W	R809	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R810	1-216-813-11	METAL CHIP	220	5%	1/16W
R656	1-216-841-11	METAL CHIP	47K	5%	1/16W	R811	1-216-845-11	METAL CHIP	100K	5%	1/16W
R657	1-216-821-11	METAL CHIP	1K	5%	1/16W	R901	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R658	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R659	1-216-813-11	METAL CHIP	220	5%	1/16W	R902	1-216-837-11	METAL CHIP	22K	5%	1/16W
R697	1-249-417-11	CARBON	1K	5%	1/4W	R903	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R904	1-216-833-11	METAL CHIP	10K	5%	1/16W
R701	1-216-821-11	METAL CHIP	1K	5%	1/16W	R961	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R702	1-216-845-11	METAL CHIP	100K	5%	1/16W					(XG100AV)	
R703	1-216-821-11	METAL CHIP	1K	5%	1/16W	R962	1-216-837-11	METAL CHIP	22K	5%	1/16W
R704	1-216-845-11	METAL CHIP	100K	5%	1/16W					(XG100AV)	
R705	1-216-821-11	METAL CHIP	1K	5%	1/16W						
						R963	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R706	1-216-845-11	METAL CHIP	100K	5%	1/16W					(XG100AV)	
R707	1-216-821-11	METAL CHIP	1K	5%	1/16W						
					(AEP, UK, MX)			< VARIABLE RESISTOR >			
R708	1-216-821-11	METAL CHIP	1K	5%	1/16W						
					(AEP, UK, MX)	RV301	1-238-600-11	RES, ADJ, CARBON 10K			

MAIN

MIC

PA

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
RV351	1-238-600-11	RES, ADJ, CARBON 10K				R807	1-249-429-11	CARBON	10K	5%	1/4W
		< VIBRATOR >				R809	1-249-417-11	CARBON	1K	5%	1/4W
						R850	1-249-417-11	CARBON	1K	5%	1/4W
X501	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)				R852	1-249-441-11	CARBON	100K	5%	1/4W
X502	1-781-107-21	VIBRATOR, CERAMIC (16MHz)									
*****											
	A-4475-552-A	MIC BOARD, COMPLETE				R853	1-249-417-11	CARBON	1K	5%	1/4W
		*****				R854	1-249-437-11	CARBON	47K	5%	1/4W
		< CAPACITOR >				R855	1-249-429-11	CARBON	10K	5%	1/4W
C801	1-162-306-11	CERAMIC	0.01uF	30%	16V	R856	1-247-899-00	CARBON	680K	5%	1/4W
C802	1-162-215-31	CERAMIC	47PF	5%	50V	R857	1-249-425-11	CARBON	4.7K	5%	1/4W
C803	1-126-960-11	ELECT	1uF	20%	50V						
C804	1-126-959-11	ELECT	0.47uF	20%	50V	R869	1-247-875-11	CARBON	68K	5%	1/4W
C805	1-162-294-31	CERAMIC	0.001uF	10%	50V	R870	1-247-887-00	CARBON	220K	5%	1/4W
						R872	1-249-421-11	CARBON	2.2K	5%	1/4W
C806	1-162-215-31	CERAMIC	47PF	5%	50V	R873	1-247-839-11	CARBON	2.2K	5%	1/4W
C810	1-162-286-21	CERAMIC	220PF	10%	50V	R874	1-249-431-11	CARBON	15K	5%	1/4W
C813	1-137-372-11	MYLAR	0.022uF	5%	50V						
C814	1-162-215-31	CERAMIC	47PF	5%	50V	R880	1-247-855-11	CARBON	10K	5%	1/4W
C815	1-162-215-31	CERAMIC	47PF	5%	50V	R881	1-247-871-11	CARBON	47K	5%	1/4W
						R882	1-249-437-11	CARBON	47K	5%	1/4W
C816	1-126-961-11	ELECT	2.2uF	20%	50V	R883	1-249-437-11	CARBON	47K	5%	1/4W
C817	1-126-961-11	ELECT	2.2uF	20%	50V	R884	1-247-823-11	CARBON	470	5%	1/4W
C818	1-162-215-31	CERAMIC	47PF	5%	50V						
C819	1-162-215-31	CERAMIC	47PF	5%	50V	R885	1-249-429-11	CARBON	10K	5%	1/4W
C821	1-104-660-11	ELECT	47uF	20%	16V	R886	1-247-893-11	CARBON	390K	5%	1/4W
						R887	1-249-429-11	CARBON	10K	5%	1/4W
C822	1-104-660-11	ELECT	47uF	20%	16V	R888	1-249-417-11	CARBON	1K	5%	1/4W
C836	1-162-306-11	CERAMIC	0.01uF	30%	16V	R891	1-247-903-00	CARBON	1M	5%	1/4W
C880	1-126-961-11	ELECT	2.2uF	20%	50V	*****					
C881	1-162-215-31	CERAMIC	47PF	5%	50V		A-4475-707-A	PA BOARD, COMPLETE (E2, MX, AR)			
C882	1-162-215-31	CERAMIC	47PF	5%	50V		A-4475-732-A	PA BOARD, COMPLETE (AEP, UK)			
							A-4476-046-A	PA BOARD, COMPLETE (EA, SP, AUS)			
								*****			
C884	1-126-961-11	ELECT	2.2uF	20%	50V		4-875-327-31	HEAT SINK			
								< CAPACITOR >			
		< CONNECTOR >				C401	1-126-963-11	ELECT	4.7uF	20%	50V (XG100AV)
CN811	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P				C402	1-164-159-21	CERAMIC	0.1uF		50V (XG900AV)
CN812	1-785-318-11	PIN, CONNECTOR (STRAIGHT) 6P				C403	1-164-159-21	CERAMIC	0.1uF		50V (XG900AV)
		< NOISE FILTER >				C404	1-164-159-21	CERAMIC	0.1uF		50V (XG900AV)
FL801	1-424-228-11	FILTER, NOISE				C405	1-164-159-21	CERAMIC	0.1uF		50V (XG900AV)
		< IC >									
IC850	8-759-700-08	IC NJM4558S				C406	1-164-159-21	CERAMIC	0.1uF		50V
IC852	8-759-700-08	IC NJM4558S				C407	1-164-159-21	CERAMIC	0.1uF		50V
IC853	8-759-700-08	IC NJM4558S				C408	1-164-159-21	CERAMIC	0.1uF		50V
		< JACK >				C409	1-164-159-21	CERAMIC	0.1uF		50V
						C410	1-164-159-21	CERAMIC	0.1uF		50V
J801	1-770-226-11	JACK (LARGE TYPE) (MIX MIC)				C411	1-164-159-21	CERAMIC	0.1uF		50V
J802	1-770-226-11	JACK (LARGE TYPE) (GUITAR)				C412	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< TRANSISTOR >				C413	1-162-306-11	CERAMIC	0.01uF	20%	16V
						C414	1-162-306-11	CERAMIC	0.01uF	30%	16V
Q880	8-729-620-05	TRANSISTOR	2SC2603-EF			C415	1-162-306-11	CERAMIC	0.01uF	30%	16V
Q881	8-729-029-86	TRANSISTOR	DTC124ESA			C416	1-162-306-11	CERAMIC	0.01uF	30%	16V
Q882	8-729-029-86	TRANSISTOR	DTC124ESA			C432	1-126-933-11	ELECT	100uF	20%	16V
Q883	8-729-029-40	TRANSISTOR	DTA124ESA			C433	1-126-961-11	ELECT	2.2uF	20%	50V (XG900AV)
		< RESISTOR >									
						C433	1-126-962-11	ELECT	3.3uF	20%	50V (XG100AV)
R806	1-247-903-00	CARBON	1M	5%	1/4W	C801	1-128-582-11	ELECT	10uF	20%	100V

# HCD-XG100AV/XG900AV

PA

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C802	1-162-290-31	CERAMIC	470PF	10%	50V	C895	1-107-721-11	ELECT	4.7uF	20%	100V
C803	1-162-286-21	CERAMIC	220PF	10%	50V	C902	1-164-159-21	CERAMIC	0.1uF		50V
C804	1-126-967-11	ELECT	47uF	20%	50V	C903	1-126-933-11	ELECT	100uF	20%	16V
C807	1-128-560-11	ELECT	22uF	20%	100V	C904	1-126-964-11	ELECT	10uF	20%	50V
C808	1-130-777-00	MYLAR	0.1uF	10%	100V	C905	1-126-968-11	ELECT	100uF	20%	50V
C809	1-130-777-00	MYLAR	0.1uF	10%	100V	C906	1-126-943-11	ELECT	2200uF	20%	25V
C810	1-128-562-11	ELECT	47uF	20%	100V	C909	1-164-159-21	CERAMIC	0.1uF		50V
					(XG100AV)	C910	1-104-660-91	ELECT	47uF	20%	16V
C810	1-128-578-11	ELECT	1uF	20%	100V			< CONNECTOR >			
					(XG900AV)						
C811	1-130-491-00	MYLAR	0.047uF	5%	50V	CN803	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
C812	1-130-491-00	MYLAR	0.047uF	5%	50V	CN804	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
						CN904	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P			
C813	1-162-306-11	CERAMIC	0.01uF	20%	16V			< DIODE >			
C814	1-162-294-31	CERAMIC	0.001uF	10%	50V	D401	8-719-991-33	DIODE 1SS133T-77			
C815	1-126-959-11	ELECT	0.47uF	20%	50V	D402	8-719-991-33	DIODE 1SS133T-77			
C830	1-107-714-11	ELECT	10uF	20%	50V	D403	8-719-991-33	DIODE 1SS133T-77			
C831	1-126-964-11	ELECT	10uF	20%	50V	D404	8-719-991-33	DIODE 1SS133T-77			
					(XG100AV)	D405	8-719-991-33	DIODE 1SS133T-77 (XG100AV)			
C832	1-126-967-11	ELECT	47uF	20%	50V	D406	8-719-991-33	DIODE 1SS133T-77 (XG100AV)			
C841	1-127-751-11	ELECT	3300uF	20%	50V	D407	8-719-991-33	DIODE 1SS133T-77 (XG100AV)			
					(EA, SP, AUS)	D408	8-719-991-33	DIODE 1SS133T-77 (XG100AV)			
C841	1-127-811-11	ELECT	3300uF	20%	50V	D409	8-719-991-33	DIODE 1SS133T-77 (XG100AV)			
					(E2, MX, AR)	D410	8-719-991-33	DIODE 1SS133T-77			
C841	1-135-515-11	ELECT	3300uF	20%	50V						
					(AEP, UK)	D801	8-719-991-33	DIODE 1SS133T-77			
C842	1-127-754-11	ELECT	3300uF	20%	80V	D802	8-719-110-39	DIODE RD15ESB1			
					(EA, SP, AUS)	D803	8-719-991-33	DIODE 1SS133T-77			
C842	1-127-814-11	ELECT	3300uF	20%	80V	D804	8-719-991-33	DIODE 1SS133T-77			
					(E2, MX, AR)	D805	8-719-991-33	DIODE 1SS133T-77			
C842	1-135-516-11	ELECT	3300uF	20%	63V						
					(AEP, UK)	D831	8-719-510-68	DIODE D5SBA204101			
C844	1-130-777-00	MYLAR	0.1uF	10%	100V	D833	8-719-200-82	DIODE 11ES2			
C845	1-126-943-11	ELECT	2200uF	20%	25V	D834	8-719-200-82	DIODE 11ES2			
C847	1-164-159-21	CERAMIC	0.1uF		50V	D835	8-719-200-82	DIODE 11ES2			
						D836	8-719-200-82	DIODE 11ES2			
C848	1-164-159-21	CERAMIC	0.1uF		50V						
C849	1-164-159-21	CERAMIC	0.1uF		50V	D841	8-719-200-82	DIODE 11ES2			
C850	1-107-721-11	ELECT	4.7uF	20%	100V	D842	8-719-200-82	DIODE 11ES2			
C851	1-128-582-11	ELECT	10uF	20%	100V	D843	8-719-200-82	DIODE 11ES2			
C852	1-162-290-31	CERAMIC	470PF	10%	50V	D844	8-719-200-82	DIODE 11ES2			
						D851	8-719-991-33	DIODE 1SS133T-77			
C853	1-162-286-21	CERAMIC	220PF	10%	50V						
C854	1-126-967-11	ELECT	47uF	20%	50V	D852	8-719-110-39	DIODE RD15ESB1			
C857	1-128-560-11	ELECT	22uF	20%	100V	D853	8-719-991-33	DIODE 1SS133T-77			
C858	1-164-159-21	CERAMIC	0.1uF		16V	D902	8-719-210-21	DIODE 11EQS04			
C859	1-164-159-21	CERAMIC	0.1uF		16V	D903	8-719-210-21	DIODE 11EQS04			
						D904	8-719-210-21	DIODE 11EQS04			
C861	1-130-491-00	MYLAR	0.047uF	5%	50V	D905	8-719-210-21	DIODE 11EQS04			
C862	1-130-491-00	MYLAR	0.047uF	5%	50V	D906	8-719-991-33	DIODE 1SS133T-77			
C863	1-126-961-11	ELECT	2.2uF	20%	50V	D911	8-719-982-37	DIODE MTZJ-39C			
C891	1-127-751-11	ELECT	3300uF	20%	50V	D912	8-719-109-89	DIODE RD5.6ESB2			
					(EA, SP, AUS)						
C891	1-127-811-11	ELECT	3300uF	20%	50V			< IC >			
					(E2, MX, AR)						
C891	1-135-515-11	ELECT	3300uF	20%	50V	IC801	8-749-017-01	IC STK412-020 (XG900AV)			
					(AEP, UK)	IC801	8-749-017-05	IC STK412-040 (XG100AV)			
C892	1-127-754-11	ELECT	3300uF	20%	80V	IC901	8-759-450-47	IC BA05T			
					(EA, SP, AUS)						
C892	1-127-814-11	ELECT	3300uF	20%	80V			< COIL >			
					(E2, MX, AR)						
C892	1-135-516-11	ELECT	3300uF	20%	63V						
					(AEP, UK)						
C894	1-130-777-00	MYLAR	0.1uF	10%	100V	L401	1-420-872-00	COIL, AIR-CORE (XG900AV)			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L402	1-420-872-00	COIL, AIR-CORE (XG900AV)		R414	1-260-076-11	CARBON 10 5%	1/2W (XG900AV)
L403	1-420-872-00	COIL, AIR-CORE					
L404	1-420-872-00	COIL, AIR-CORE		R415	1-260-076-11	CARBON 10 5%	1/2W (XG900AV)
L405	1-420-872-00	COIL, AIR-CORE					
< TRANSISTOR >				R416	1-249-389-11	CARBON 4.7 5%	1/4W
Q401	8-729-029-40	TRANSISTOR DTA124ESA		R417	1-249-389-11	CARBON 4.7 5%	1/4W
Q402	8-729-620-05	TRANSISTOR 2SC2603-EF		R418	1-249-389-11	CARBON 4.7 5%	1/4W
Q403	8-729-029-40	TRANSISTOR DTA124ESA		R419	1-249-389-11	CARBON 4.7 5%	1/4W
Q404	8-729-029-40	TRANSISTOR DTA124ESA					
Q406	8-729-029-86	TRANSISTOR DTC124ESA		R420	1-249-389-11	CARBON 4.7 5%	1/4W
Q407	8-729-029-86	TRANSISTOR DTC124ESA		R421	1-249-389-11	CARBON 4.7 5%	1/4W
Q431	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R422	1-260-076-11	CARBON 10 5%	1/2W
Q432	8-729-119-76	TRANSISTOR 2SA1175-HFE		R423	1-260-076-11	CARBON 10 5%	1/2W
Q433	8-729-620-05	TRANSISTOR 2SC2603-EF		R424	1-260-076-11	CARBON 10 5%	1/2W
Q434	8-729-620-05	TRANSISTOR 2SC2603-EF					
Q437	8-729-620-05	TRANSISTOR 2SC2603-EF		R425	1-249-437-11	CARBON 47K 5%	1/4W
Q439	8-729-620-05	TRANSISTOR 2SC2603-EF		R429	1-249-437-11	CARBON 47K 5%	1/4W
Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R430	1-249-437-11	CARBON 47K 5%	1/4W
Q803	8-729-140-82	TRANSISTOR 2SA988-PAFAEA		R431	1-249-438-11	CARBON 56K 5%	1/4W
Q804	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R432	1-249-437-11	CARBON 47K 5%	1/4W
Q805	8-729-231-55	TRANSISTOR 2SC2878-AB					
Q831	8-729-029-86	TRANSISTOR DTC124ESA (XG100AV)		R434	1-249-433-11	CARBON 22K 5%	1/4W
Q832	8-729-620-05	TRANSISTOR 2SC2603TP-EF (XG100AV)		R437	1-249-429-11	CARBON 10K 5%	1/4W
Q833	8-729-029-40	TRANSISTOR DTA124ESA		R439	1-249-425-11	CARBON 4.7K 5%	1/4W
Q834	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		R440	1-249-433-11	CARBON 22K 5%	1/4W (XG100AV)
Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA					
Q855	8-729-231-55	TRANSISTOR 2SC2878-AB		R440	1-249-437-11	CARBON 47K 5%	1/4W (XG900AV)
Q901	8-729-620-05	TRANSISTOR 2SC2603-EF					
Q903	8-729-141-83	TRANSISTOR 2SB1094-LK		R441	1-249-435-11	CARBON 33K 5%	1/4W
Q908	8-729-119-76	TRANSISTOR 2SA1175-HFE		R442	1-249-435-11	CARBON 33K 5%	1/4W
< RESISTOR >				R443	1-249-434-11	CARBON 27K 5%	1/4W
△ R401	1-215-863-11	METAL OXIDE 100 5%	1W F (XG900AV)	R444	1-249-439-11	CARBON 68K 5%	1/4W
△ R401	1-216-430-11	METAL OXIDE 390 5%	1W F (XG100AV)	R446	1-249-429-11	CARBON 10K 5%	1/4W
△ R402	1-215-863-11	METAL OXIDE 100 5%	1W F (XG900AV)				
△ R402	1-216-430-11	METAL OXIDE 390 5%	1W F (XG100AV)	R447	1-249-437-11	CARBON 47K 5%	1/4W
△ R403	1-215-863-11	METAL OXIDE 100 5%	1W F (XG900AV)	R450	1-249-437-11	CARBON 47K 5%	1/4W (XG100AV)
△ R403	1-216-430-11	METAL OXIDE 390 5%	1W F (XG100AV)				
R406	1-249-437-11	CARBON 47K 5%	1/4W (XG100AV)	R801	1-249-417-11	CARBON 1K 5%	1/4W
R407	1-249-437-11	CARBON 47K 5%	1/4W (XG100AV)	R802	1-249-437-11	CARBON 47K 5%	1/4W
R408	1-249-440-11	CARBON 82K 5%	1/4W (XG100AV)	R803	1-249-415-11	CARBON 680 5%	1/4W
R409	1-249-437-11	CARBON 47K 5%	1/4W (XG100AV)				
R410	1-249-389-11	CARBON 4.7 5%	1/4W (XG900AV)	R804	1-249-435-11	CARBON 33K 5%	1/4W
R411	1-249-389-11	CARBON 4.7 5%	1/4W (XG900AV)	△ R805	1-216-436-00	METAL OXIDE 3.9K 5%	1W F
R412	1-249-389-11	CARBON 4.7 5%	1/4W (XG900AV)	△ R806	1-216-436-00	METAL OXIDE 3.9K 5%	1W F
R413	1-249-389-11	CARBON 4.7 5%	1/4W (XG900AV)	△ R807	1-212-881-11	FUSIBLE 100 5%	1/4W F
				△ R808	1-244-164-11	WIREWOUND 0.22 10%	5W F
				R809	1-260-076-11	CARBON 10 5%	1/2W
				R810	1-249-437-11	CARBON 47K 5%	1/4W
				R811	1-249-417-11	CARBON 1K 5%	1/4W
				R812	1-249-431-11	CARBON 15K 5%	1/4W
				R813	1-249-441-11	CARBON 100K 5%	1/4W
				R814	1-249-421-11	CARBON 2.2K 5%	1/4W
				R815	1-249-433-11	CARBON 22K 5%	1/4W
				R816	1-249-429-11	CARBON 10K 5%	1/4W
				R817	1-249-421-11	CARBON 2.2K 5%	1/4W
				R818	1-249-409-11	CARBON 220 5%	1/4W
				R819	1-249-439-11	CARBON 68K 5%	1/4W
				△ R820	1-202-972-61	FUSIBLE 1 5%	1/4W F
				R821	1-249-435-11	CARBON 33K 5%	1/4W
				R822	1-249-433-11	CARBON 22K 5%	1/4W
				R823	1-249-433-11	CARBON 22K 5%	1/4W
				R824	1-249-413-11	CARBON 470 5%	1/4W
				△ R825	1-215-891-11	METAL OXIDE 680 5%	2W F

The components identified by mark △ or dotted line with mark △ are critical for safety.  
Replace only with part number specified.

# HCD-XG100AV/XG900AV

PA	PANEL FL
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Ref. No.	Part No.	Description	Remark
R827	1-249-441-11	CARBON 100K 5%	1/4W
R828	1-247-903-00	CARBON 1M 5%	1/4W
R831	1-249-441-11	CARBON 100K 5%	1/4W (XG100AV)
R832	1-249-441-11	CARBON 100K 5%	1/4W (XG100AV)
R833	1-249-432-11	CARBON 18K 5%	1/4W (XG100AV)
R834	1-249-429-11	CARBON 10K 5%	1/4W
R835	1-249-437-11	CARBON 47K 5%	1/4W
R836	1-249-417-11	CARBON 1K 5%	1/4W
R837	1-249-435-11	CARBON 33K 5%	1/4W
R838	1-249-435-11	CARBON 33K 5%	1/4W
R839	1-249-441-11	CARBON 100K 5%	1/4W
R840	1-249-402-11	CARBON 56 5%	1/4W
R851	1-249-417-11	CARBON 1K 5%	1/4W
R852	1-249-437-11	CARBON 47K 5%	1/4W
R853	1-249-415-11	CARBON 680 5%	1/4W
△ R855	1-215-891-11	METAL OXIDE 680 5%	2W F
△ R857	1-212-881-11	FUSIBLE 100 5%	1/4W F
△ R858	1-244-164-11	WIREWOUND 0.22 10%	5W F
R859	1-260-076-11	CARBON 10 5%	1/2W
R860	1-249-437-11	CARBON 47K 5%	1/4W
R861	1-249-417-11	CARBON 1K 5%	1/4W
R862	1-249-431-11	CARBON 15K 5%	1/4W
R863	1-249-441-11	CARBON 100K 5%	1/4W
R864	1-249-425-11	CARBON 4.7K 5%	1/4W
R865	1-249-433-11	CARBON 22K 5%	1/4W
R868	1-249-409-11	CARBON 220 5%	1/4W
R880	1-249-402-11	CARBON 56 5%	1/4W
△ R888	1-244-164-11	WIREWOUND 0.22 10%	5W F
R889	1-249-441-11	CARBON 100K 5%	1/4W
△ R898	1-244-164-11	WIREWOUND 0.22 10%	5W F
R901	1-249-429-11	CARBON 10K 5%	1/4W
R902	1-249-441-11	CARBON 100K 5%	1/4W
R903	1-249-429-11	CARBON 10K 5%	1/4W
R904	1-249-417-11	CARBON 1K 5%	1/4W
R905	1-249-429-11	CARBON 10K 5%	1/4W
R906	1-247-807-31	CARBON 100 5%	1/4W
R907	1-247-807-31	CARBON 100 5%	1/4W
R915	1-247-791-11	CARBON 22 5%	1/4W
△ R916	1-215-915-11	METAL OXIDE 470 5%	3W F (XG100AV)
< RELAY >			
RY401	1-515-920-11	RELAY (24V)	
RY402	1-515-920-11	RELAY (24V)	
RY403	1-515-920-11	RELAY (24V)	
< THERMISTOR >			
TH831	1-807-796-11	THERMISTOR (XG100AV)	
< TERMINAL >			
TM401	1-537-925-61	TERMINAL BOARD (FRONT SPEAKER)	
TM402	1-537-510-31	TERMINAL BOARD (SPEAKER) (6P) (SURROUND SPEAKER REAR/CENTER)	

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Ref. No.	Part No.	Description	Remark
	A-4475-589-A	PANEL FL BOARD, COMPLETE *****	
	4-225-511-01	HOLDER FL TUBE	
*	4-949-935-81	CUSHION (FL)	
< CAPACITOR >			
C601	1-104-660-11	ELECT 47uF 20%	16V
C602	1-162-306-11	CERAMIC 0.01uF 30%	16V
C603	1-162-306-11	CERAMIC 0.01uF 30%	16V
C604	1-162-294-31	CERAMIC 0.001uF 10%	50V
C605	1-164-159-21	CERAMIC 0.1uF	50V
C607	1-104-660-11	ELECT 47uF 20%	16V
C641	1-126-964-11	ELECT 10uF 20%	50V
C642	1-126-964-11	ELECT 10uF 20%	50V
C643	1-162-303-11	CERAMIC 0.0033uF 30%	16V
C644	1-126-964-11	ELECT 10uF 20%	50V
C645	1-104-660-11	ELECT 47uF 20%	16V
C646	1-162-306-11	CERAMIC 0.01uF 30%	16V
C647	1-126-963-11	ELECT 4.7uF 20%	50V
C648	1-126-960-11	ELECT 1uF 20%	50V
C649	1-126-960-11	ELECT 1uF 20%	50V
< CONNECTOR >			
CN601	1-784-774-11	CONNECTOR, FFC 13P	
CN602	1-568-838-11	SOCKET, CONNECTOR 21P	
< DIODE >			
D601	8-719-058-04	LED SEL5223S-TP15 (I/Ⓢ)	
D602	8-719-050-84	DIODE RB441Q-40T-77	
D603	8-719-991-33	DIODE 1SS133T-77	
< FLUORESCENT INDICATOR TUBE >			
FL601	1-517-940-11	INDICATOR TUBE, FLUORESCENT	
< IC >			
IC601	8-759-829-28	IC TMP88CP76F-1B71	
IC602	8-759-083-77	IC BA3830F	
< COIL >			
L601	1-410-509-11	INDUCTOR 10uH	
L602	1-410-509-11	INDUCTOR 10uH	
L603	1-410-509-11	INDUCTOR 10uH	
< NOISE FILTER >			
LF601	1-424-228-11	FILTER, NOISE	
< TRANSISTOR >			
Q601	8-729-029-86	TRANSISTOR DTC124ESA	
Q602	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q603	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q604	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q605	8-729-047-58	TRANSISTOR DTC114TLTL2	
Q606	8-729-047-58	TRANSISTOR DTC114TLTL2	
Q607	8-729-047-58	TRANSISTOR DTC114TLTL2	

The components identified by mark △ or dotted line with mark △ are critical for safety.  
Replace only with part number specified.

## PANEL FL

## PANEL VR

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
< RESISTOR >						R661	1-249-410-11	CARBON 270 5%	1/4W		
R601	1-249-429-11	CARBON	10K	5%	1/4W	< SWITCH >					
R602	1-249-437-11	CARBON	47K	5%	1/4W	S601	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
R603	1-247-807-31	CARBON	100	5%	1/4W	S602	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM ANALYZER)			
R604	1-249-437-11	CARBON	47K	5%	1/4W	S603	1-762-875-21	SWITCH, KEYBOARD (TIMER SELECT)			
R605	1-247-807-31	CARBON	100	5%	1/4W	S604	1-762-875-21	SWITCH, KEYBOARD (SLEEP)			
R606	1-247-807-31	CARBON	100	5%	1/4W	S605	1-762-875-21	SWITCH, KEYBOARD (⌚/CLOCK SET)			
R607	1-247-807-31	CARBON	100	5%	1/4W	S606	1-762-875-21	SWITCH, KEYBOARD (GAME)			
R608	1-249-429-11	CARBON	10K	5%	1/4W	S607	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)			
R609	1-249-429-11	CARBON	10K	5%	1/4W	S608	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
R610	1-249-429-11	CARBON	10K	5%	1/4W	S609	1-762-875-21	SWITCH, KEYBOARD (POWER SAVE/DEMO (STANDBY))			
R611	1-249-429-11	CARBON	10K	5%	1/4W	< VIBRATOR >					
R612	1-249-429-11	CARBON	10K	5%	1/4W	X601	1-781-312-11	VIBRATOR, CERAMIC (12.5MHz)			
R613	1-249-429-11	CARBON	10K	5%	1/4W	*****					
R614	1-249-429-11	CARBON	10K	5%	1/4W	A-4475-710-A	PANEL VR BOARD, COMPLETE (XG100AV)				
R615	1-249-410-11	CARBON	270	5%	1/4W	A-4475-729-A	PANEL VR BOARD, COMPLETE (XG900AV)				
R616	1-249-410-11	CARBON	270	5%	1/4W	*****					
R617	1-247-903-00	CARBON	1M	5%	1/4W	< CAPACITOR >					
R618	1-247-807-31	CARBON	100	5%	1/4W	C701	1-162-294-31	CERAMIC 0.001uF 10%	50V		
R619	1-249-429-11	CARBON	10K	5%	1/4W	C702	1-162-294-31	CERAMIC 0.001uF 10%	50V		
R620	1-249-429-11	CARBON	10K	5%	1/4W	C703	1-162-294-31	CERAMIC 0.001uF 10%	50V		
R621	1-247-807-31	CARBON	100	5%	1/4W	C704	1-104-660-11	ELECT 47uF 20%	16V		
R622	1-249-429-11	CARBON	10K	5%	1/4W	C705	1-162-306-11	CERAMIC 0.01uF 30%	16V		
R623	1-247-807-31	CARBON	100	5%	1/4W	C711	1-162-306-11	CERAMIC 0.01uF 30%	16V		
R624	1-249-429-11	CARBON	10K	5%	1/4W	C712	1-162-306-11	CERAMIC 0.01uF 30%	16V		
R625	1-247-807-31	CARBON	100	5%	1/4W	C713	1-164-159-21	CERAMIC 0.1uF	50V		
R626	1-249-429-11	CARBON	10K	5%	1/4W	C714	1-104-660-11	ELECT 47uF 20%	16V		
R627	1-249-420-11	CARBON	1.8K	5%	1/4W	C715	1-162-306-11	CERAMIC 0.01uF 30%	16V		
R628	1-249-410-11	CARBON	270	5%	1/4W	< CONNECTOR >					
R629	1-247-807-31	CARBON	100	5%	1/4W	CN701	1-568-838-11	SOCKET, CONNECTOR 21P			
R630	1-247-807-31	CARBON	100	5%	1/4W	CN702	1-770-010-21	CONNECTOR, BOARD TO BOARD 4P			
R631	1-249-410-11	CARBON	270	5%	1/4W	< LED >					
R632	1-249-411-11	CARBON	330	5%	1/4W	D701	8-719-071-42	LED SEL5723C-TP (MOVIE)			
R633	1-249-413-11	CARBON	470	5%	1/4W	D702	8-719-071-42	LED SEL5723C-TP (ROCK)			
R634	1-249-414-11	CARBON	560	5%	1/4W	D703	8-719-071-42	LED SEL5723C-TP (REGGAE)			
R635	1-249-415-11	CARBON	680	5%	1/4W	D704	8-719-071-42	LED SEL5723C-TP (GUITAR)			
R636	1-249-417-11	CARBON	1K	5%	1/4W	D705	8-719-071-42	LED SEL5723C-TP (SAMBA)			
R637	1-249-418-11	CARBON	1.2K	5%	1/4W	D706	8-719-071-42	LED SEL5723C-TP (JAZZ)			
R641	1-247-893-11	CARBON	390K	5%	1/4W	D707	8-719-071-42	LED SEL5723C-TP (TANGO)			
R642	1-247-893-11	CARBON	390K	5%	1/4W	D708	8-719-071-42	LED SEL5723C-TP (DANCE)			
R643	1-249-441-11	CARBON	100K	5%	1/4W	D709	8-719-071-42	LED SEL5723C-TP (GAME)			
R644	1-249-440-11	CARBON	82K	5%	1/4W	D710	8-719-071-42	LED SEL5723C-TP (SALSA)			
R645	1-249-437-11	CARBON	47K	5%	1/4W	D711	8-719-301-60	LED SEL2910A-C (DVS 5.1CH)			
R646	1-249-441-11	CARBON	100K	5%	1/4W	D712	8-719-301-60	LED SEL2910A-C (PRO LOGIC)			
R647	1-249-440-11	CARBON	82K	5%	1/4W	D713	8-719-058-03	LED SEL5423E-TP15 (TUNER/BAND)			
R648	1-249-429-11	CARBON	10K	5%	1/4W	D714	8-719-058-04	LED SEL5223S-TP15 (ENTER)			
R649	1-249-420-11	CARBON	1.8K	5%	1/4W	D715	8-719-058-04	LED SEL5223S-TP15 (GUITAR DISTORTION)			
R650	1-249-435-11	CARBON	33K	5%	1/4W	D716	8-719-058-04	LED SEL5223S-TP15 (ENTER NEXT)			
R651	1-247-895-00	CARBON	470K	5%	1/4W	D717	8-719-058-04	LED SEL5223S-TP15 (GROOVE)			
R652	1-249-437-11	CARBON	47K	5%	1/4W	D718	8-719-058-04	LED SEL5223S-TP15 (SUPER WOOFER)			
R653	1-249-417-11	CARBON	1K	5%	1/4W	D719	8-719-057-97	LED SEL5923A-TP15 (DSP)			
R654	1-249-437-11	CARBON	47K	5%	1/4W						
R655	1-249-417-11	CARBON	1K	5%	1/4W						
R656	1-249-437-11	CARBON	47K	5%	1/4W						
R658	1-249-441-11	CARBON	100K	5%	1/4W						
R659	1-249-441-11	CARBON	100K	5%	1/4W						
R660	1-249-441-11	CARBON	100K	5%	1/4W						

# HCD-XG100AV/XG900AV

## PANEL VR

## SUB TRANS

Ref. No.	Part No.	Description	Remark		
< IC >					
IC701	8-759-567-59	IC NJU3716L			
IC702	8-759-827-68	IC NJL62H400A-1	(REMOTE CONTROL RECEIVER)		
< COIL >					
L701	1-410-509-11	INDUCTOR	10uH		
< RESISTOR >					
R701	1-249-411-11	CARBON	330	5%	1/4W
R702	1-249-413-11	CARBON	470	5%	1/4W
R703	1-249-414-11	CARBON	560	5%	1/4W
R704	1-249-415-11	CARBON	680	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W
R706	1-249-418-11	CARBON	1.2K	5%	1/4W
R707	1-249-420-11	CARBON	1.8K	5%	1/4W
R708	1-249-422-11	CARBON	2.7K	5%	1/4W
R709	1-247-843-11	CARBON	3.3K	5%	1/4W
R710	1-249-425-11	CARBON	4.7K	5%	1/4W
R711	1-249-427-11	CARBON	6.8K	5%	1/4W
R712	1-249-429-11	CARBON	10K	5%	1/4W
R713	1-249-431-11	CARBON	15K	5%	1/4W
R714	1-249-434-11	CARBON	27K	5%	1/4W
R715	1-249-411-11	CARBON	330	5%	1/4W
R716	1-249-413-11	CARBON	470	5%	1/4W
R717	1-249-414-11	CARBON	560	5%	1/4W
R718	1-249-415-11	CARBON	680	5%	1/4W
R719	1-249-417-11	CARBON	1K	5%	1/4W
R720	1-249-418-11	CARBON	1.2K	5%	1/4W
R721	1-249-420-11	CARBON	1.8K	5%	1/4W
R722	1-249-422-11	CARBON	2.7K	5%	1/4W
R723	1-247-843-11	CARBON	3.3K	5%	1/4W
R724	1-249-425-11	CARBON	4.7K	5%	1/4W
R725	1-249-420-11	CARBON	1.8K	5%	1/4W
R726	1-249-422-11	CARBON	2.7K	5%	1/4W
R727	1-247-843-11	CARBON	3.3K	5%	1/4W
R728	1-249-425-11	CARBON	4.7K	5%	1/4W
R729	1-249-427-11	CARBON	6.8K	5%	1/4W
R730	1-249-429-11	CARBON	10K	5%	1/4W
R731	1-249-431-11	CARBON	15K	5%	1/4W
R732	1-249-434-11	CARBON	27K	5%	1/4W
R734	1-249-417-11	CARBON	1K	5%	1/4W
R735	1-249-417-11	CARBON	1K	5%	1/4W
R736	1-249-401-11	CARBON	47	5%	1/4W
R737	1-247-807-31	CARBON	100	5%	1/4W
R738	1-247-807-31	CARBON	100	5%	1/4W
R739	1-247-807-31	CARBON	100	5%	1/4W
R740	1-249-429-11	CARBON	10K	5%	1/4W
R771	1-249-403-11	CARBON	68	5%	1/4W
R772	1-249-403-11	CARBON	68	5%	1/4W
R773	1-249-403-11	CARBON	68	5%	1/4W
R774	1-249-403-11	CARBON	68	5%	1/4W
R775	1-249-403-11	CARBON	68	5%	1/4W
R776	1-249-403-11	CARBON	68	5%	1/4W
R777	1-249-403-11	CARBON	68	5%	1/4W
R778	1-249-403-11	CARBON	68	5%	1/4W
R779	1-249-403-11	CARBON	68	5%	1/4W

Ref. No.	Part No.	Description			Remark
R780	1-249-403-11	CARBON	68	5%	1/4W
R781	1-249-403-11	CARBON	68	5%	1/4W
R782	1-249-403-11	CARBON	68	5%	1/4W
R783	1-249-403-11	CARBON	68	5%	1/4W
R784	1-249-407-11	CARBON	150	5%	1/4W
R785	1-249-407-11	CARBON	150	5%	1/4W
R786	1-249-407-11	CARBON	150	5%	1/4W
R787	1-249-407-11	CARBON	150	5%	1/4W
R788	1-249-407-11	CARBON	150	5%	1/4W
R789	1-249-403-11	CARBON	68	5%	1/4W
R790	1-249-409-11	CARBON	220	5%	1/4W
R791	1-249-409-11	CARBON	220	5%	1/4W
R792	1-249-406-11	CARBON	120	5%	1/4W
< SWITCH/ROTARY ENCODER >					
S701	1-762-875-21	SWITCH, KEYBOARD (TUNER MEMORY)			
S702	1-762-875-21	SWITCH, KEYBOARD (ENTER/NEXT)			
S703	1-762-875-21	SWITCH, KEYBOARD (-)			
S704	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
S705	1-762-875-21	SWITCH, KEYBOARD (+)			
S706	1-762-875-21	SWITCH, KEYBOARD (STEREO/MONO)			
S707	1-762-875-21	SWITCH, KEYBOARD (TUNING MODE)			
S708	1-762-875-21	SWITCH, KEYBOARD (ENTER)			
S709	1-762-875-21	SWITCH, KEYBOARD (P.FILE)			
S710	1-762-875-21	SWITCH, KEYBOARD (FLAT)			
S712	1-762-875-21	SWITCH, KEYBOARD (DSP)			
S713	1-762-875-21	SWITCH, KEYBOARD (GROOVE)			
S714	1-762-875-21	SWITCH, KEYBOARD (SUPER WOOFER)			
S715	1-762-875-21	SWITCH, KEYBOARD (SUPER WOOFER MODE)			
S716	1-762-875-21	SWITCH, KEYBOARD (GUITAR)			
S717	1-762-875-21	SWITCH, KEYBOARD (JAZZ)			
S718	1-762-875-21	SWITCH, KEYBOARD (SAMBA)			
S719	1-762-875-21	SWITCH, KEYBOARD (DANCE)			
S720	1-762-875-21	SWITCH, KEYBOARD (TANGO)			
S721	1-762-875-21	SWITCH, KEYBOARD (SALSA)			
S722	1-762-875-21	SWITCH, KEYBOARD (GAME)			
S723	1-762-875-21	SWITCH, KEYBOARD (◀)			
S724	1-762-875-21	SWITCH, KEYBOARD (▲)			
S725	1-762-875-21	SWITCH, KEYBOARD (▼)			
S726	1-762-875-21	SWITCH, KEYBOARD (▶)			
S727	1-762-875-21	SWITCH, KEYBOARD (ROCK)			
S728	1-762-875-21	SWITCH, KEYBOARD (MOVIE)			
S729	1-762-875-21	SWITCH, KEYBOARD (REGGAE)			
S730	1-762-875-21	SWITCH, KEYBOARD (MIC GUITAR/KARAOKE)			
S731	1-762-875-21	SWITCH, KEYBOARD (GUITAR DISTORTION)			
S732	1-762-875-21	SWITCH, KEYBOARD (PTY) (XG900AV)			
S733	1-762-875-21	SWITCH, KEYBOARD (PRO LOGIC)			
S734	1-762-875-21	SWITCH, KEYBOARD (DVD 5.1CH)			
S736	1-473-392-11	ENCODER, ROTARY (VOLUME)			
*****					
	1-680-175-11	SUB TRANS BOARD			
*****					
< CAPACITOR >					
△C901	1-113-925-11	CERAMIC	0.01uF	20%	250V

The components identified by mark △ or dotted line with mark △ are critical for safety.  
Replace only with part number specified.

## SUB TRANS

## SURROUND

## TABLE SENSOR

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< CONNECTOR >				< IC >			
CN901	1-564-321-00	PIN, CONNECTOR 2P		IC101	8-749-017-19	IC STK443-050	
* CN902	1-564-321-21	PIN, CONNECTOR 2P (AEP, UK, MX, AUS)		< TRANSISTOR >			
CN902	1-568-106-11	PIN, CONNECTOR 4P (E2, EA, SP, AR)		Q101	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA
< DIODE >				Q151	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA
D901	8-719-991-33	DIODE 1SS133T-77		Q181	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA
< RELAY >				< RESISTOR >			
△ RY901	1-755-276-11	RELAY, POWER		R101	1-249-417-11	CARBON	1K 5% 1/4W
< SWITCH >				R102	1-249-437-11	CARBON	47K 5% 1/4W
△ S901	1-786-055-21	SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (E2, EA, SP, AR)		R103	1-249-411-11	CARBON	330 5% 1/4W
< TRANSFORMER >				△ R107	1-212-881-11	FUSIBLE	100 5% 1/4W
△ T901	1-435-827-11	TRANSFORMER, POWER (XG900AV)		△ R108	1-220-755-11	METAL	0.22 10% 2W F
△ T901	1-437-331-11	TRANSFORMER, POWER (XG100AV)		R109	1-260-076-11	CARBON	10 5% 1/2W F
*****				R110	1-249-437-11	CARBON	47K 5% 1/4W
SURROUND BOARD				R111	1-249-417-11	CARBON	1K 5% 1/4W
*****				R112	1-249-431-11	CARBON	15K 5% 1/4W
< CAPACITOR >				R113	1-249-441-11	CARBON	100K 5% 1/4W
C101	1-126-960-11	ELECT	1uF 20% 50V	△ R120	1-217-637-00	FUSIBLE	1 5% 1/4W F
C102	1-162-292-31	CERAMIC	680PF 10% 50V	△ R128	1-220-755-11	METAL	0.22 10% 2W F
C103	1-162-286-21	CERAMIC	220PF 10% 50V	R130	1-249-429-11	CARBON	10K 5% 1/4W
C104	1-126-967-11	ELECT	47uF 20% 50V	△ R138	1-220-755-11	METAL	0.22 10% 2W F
C105	1-136-165-00	MYLAR	0.1uF 5% 50V	R151	1-249-417-11	CARBON	1K 5% 1/4W
C106	1-136-165-00	MYLAR	0.1uF 5% 50V	R152	1-249-437-11	CARBON	47K 5% 1/4W
C107	1-126-968-11	ELECT	100uF 20% 50V	R153	1-249-410-11	CARBON	270 5% 1/4W
C108	1-136-495-11	FILM	0.068uF 5% 50V	△ R157	1-212-881-11	FUSIBLE	100 5% 1/4W F
C109	1-136-495-11	FILM	0.068uF 5% 50V	△ R158	1-220-755-11	METAL	0.22 10% 2W F
C113	1-162-306-11	CERAMIC	0.01uF 30% 16V	R159	1-260-076-11	CARBON	10 5% 1/2W
C114	1-162-294-31	CERAMIC	0.001uF 10% 50V	R160	1-249-437-11	CARBON	47K 5% 1/4W
C151	1-126-960-11	ELECT	1uF 20% 50V	R161	1-249-417-11	CARBON	1K 5% 1/4W
C152	1-162-292-31	CERAMIC	680PF 10% 50V	R162	1-249-431-11	CARBON	15K 5% 1/4W
C153	1-162-286-21	CERAMIC	220PF 10% 50V	R163	1-249-441-11	CARBON	100K 5% 1/4W
C154	1-126-967-11	ELECT	47uF 20% 50V	△ R168	1-220-755-11	METAL	0.22 10% 2W F
C157	1-126-968-11	ELECT	100uF 20% 50V	R181	1-249-417-11	CARBON	1K 5% 1/4W
C158	1-136-495-11	FILM	0.068uF 5% 50V	R182	1-249-437-11	CARBON	47K 5% 1/4W
C159	1-136-495-11	FILM	0.068uF 5% 50V	R183	1-249-411-11	CARBON	330 5% 1/4W
C181	1-126-960-11	ELECT	1uF 20% 50V	△ R188	1-220-755-11	METAL	0.22 10% 2W F
C182	1-162-292-31	CERAMIC	680PF 10% 50V	R189	1-260-076-11	CARBON	10 5% 1/2W
C183	1-162-286-21	CERAMIC	220PF 10% 50V	R190	1-249-437-11	CARBON	47K 5% 1/4W
C184	1-126-967-11	ELECT	47uF 20% 50V	R191	1-249-417-11	CARBON	1K 5% 1/4W
C188	1-136-495-11	FILM	0.068uF 5% 50V	R192	1-249-431-11	CARBON	15K 5% 1/4W
C189	1-136-495-11	FILM	0.068uF 5% 50V	R193	1-249-441-11	CARBON	100K 5% 1/4W
*****				*****			
< CONNECTOR >				* 1-659-058-13 TABLE SENSOR BOARD			
CN101	1-691-771-11	PLUG (MICRO CONNECTOR) 9P		*****			
< DIODE >				< PHOTO INTERRUPTER >			
D101	8-719-991-33	DIODE 1SS133T-77		IC202	8-749-924-18	PHOTO INTERRUPTER RPI-1391	
D151	8-719-991-33	DIODE 1SS133T-77		< RESISTOR >			
D191	8-719-991-33	DIODE 1SS133T-77		R207	1-249-416-11	CARBON	820 5% 1/4W
*****				*****			

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

HCD-XG100AV/XG900AV

TC-A TC-B TRANS

Ref. No.	Part No.	Description	Remark
	1-680-171-11	TC-A BOARD *****	
		< LED >	
D621	8-719-058-03	LED SEL5423E-TP15 (▷)	
D622	8-719-058-03	LED SEL5423E-TP15 (◁)	
		< RESISTOR >	
R681	1-249-411-11	CARBON 330 5% 1/4W	
R682	1-249-413-11	CARBON 470 5% 1/4W	
R683	1-249-414-11	CARBON 560 5% 1/4W	
R684	1-249-415-11	CARBON 680 5% 1/4W	
R685	1-249-417-11	CARBON 1K 5% 1/4W	
R686	1-249-418-11	CARBON 1.2K 5% 1/4W	
R687	1-249-403-11	CARBON 68 5% 1/4W	
R688	1-249-403-11	CARBON 68 5% 1/4W	
		< VARIABLE RESISTOR >	
RV601	1-225-739-11	RES, VAR CARBON 50K (GUITAR LEVEL)	
RV602	1-225-739-11	RES, VAR CARBON 50K (MIC LEVEL)	
		< SWITCH >	
S621	1-762-875-21	SWITCH, KEYBOARD (▷)	
S622	1-762-875-21	SWITCH, KEYBOARD (◁)	
S623	1-762-875-21	SWITCH, KEYBOARD (■)	
S624	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶I ◀◀)	
S625	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶I ▶▶)	
S626	1-762-875-21	SWITCH, KEYBOARD (DOLBY NR)	
S627	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)	
*****			
	1-680-172-11	TC-B BOARD *****	
		< LED >	
D611	8-719-058-03	LED SEL5423E-TP15 (◁)	
D612	8-719-058-03	LED SEL5423E-TP15 (▷)	
D613	8-719-057-97	LED SEL5923A-TP15 (■)	
D614	8-719-058-04	LED SEL5223S-TP15 (● REC)	
		< RESISTOR >	
R662	1-249-411-11	CARBON 330 5% 1/4W	
R663	1-249-413-11	CARBON 470 5% 1/4W	
R664	1-249-414-11	CARBON 560 5% 1/4W	
R665	1-249-427-11	CARBON 6.8K 5% 1/4W	
R666	1-249-429-11	CARBON 10K 5% 1/4W	
R667	1-249-431-11	CARBON 15K 5% 1/4W	
R668	1-249-434-11	CARBON 27K 5% 1/4W	
R669	1-249-438-11	CARBON 56K 5% 1/4W	
R670	1-249-403-11	CARBON 68 5% 1/4W	
R671	1-249-403-11	CARBON 68 5% 1/4W	
R672	1-249-403-11	CARBON 68 5% 1/4W	
R673	1-249-407-11	CARBON 150 5% 1/4W	
		< SWITCH >	
S611	1-762-875-21	SWITCH, KEYBOARD (■)	
S612	1-762-875-21	SWITCH, KEYBOARD (● REC)	
S613	1-762-875-21	SWITCH, KEYBOARD (H SPEED DUB)	

Ref. No.	Part No.	Description	Remark
S614	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)	
S615	1-762-875-21	SWITCH, KEYBOARD (◁)	
S616	1-762-875-21	SWITCH, KEYBOARD (▷)	
S617	1-762-875-21	SWITCH, KEYBOARD (■)	
S618	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶I ◀◀)	
S619	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶I ▶▶)	
*****			
	1-680-174-11	TRANS BOARD *****	
	1-533-217-31	HOLDER, FUSE	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
		< CONNECTOR >	
C834	1-130-777-00	MYLAR 0.1uF 10% 100V	
C893	1-130-777-00	MYLAR 0.1uF 10% 100V	
C961	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C963	1-162-306-11	CERAMIC 0.01uF 30% 16V	
		< DIODE >	
D832	8-719-510-68	DIODE D5SBA204101	
		< CONNECTOR >	
* CN951	1-564-214-11	PIN, CONNECTOR (B3PS-VH) 3P	
* CN952	1-564-526-11	PLUG, CONNECTOR 11P	
		< FUSE >	
△ F951	1-532-506-31	FUSE (T6.3AL/250V) (E2, EA. SP. AR)	
△ F961	1-532-506-31	FUSE (T6.3AL/250V) (XG900AV)	
△ F961	1-533-949-31	FUSE CYLINDRICAL (TIME LUG) (T8AL/250V) (XG100AV)	
△ F962	1-532-506-31	FUSE (T6.3AL/250V) (XG900AV)	
△ F962	1-533-949-31	FUSE CYLINDRICAL (TIME LUG) (T8AL/250V) (XG100AV)	
△ F963	1-532-505-31	FUSE (T5AL/250V) (XG900AV)	
△ F963	1-532-506-31	FUSE (T6.3AL/250V) (XG100AV)	
△ F964	1-532-505-31	FUSE (T5AL/250V) (XG900AV)	
△ F964	1-532-506-31	FUSE (T6.3AL/250V) (XG100AV)	
		< RESISTOR >	
△ R951	1-219-122-91	FUSIBLE 0.33 5% 1/4W F	
△ R952	1-219-122-91	FUSIBLE 0.33 5% 1/4W F	
△ R953	1-219-119-81	FUSIBLE 0.1 5% 1/4W F	
*****			
		MISCELLANEOUS *****	
4	1-769-977-11	WIRE (FLAT TYPE) (13 CORE) (XG100AV)	
4	1-773-009-11	WIRE (FLAT TYPE) (15 CORE) (XG900AV)	
5	1-693-484-11	TUNER PACK (FM/AM TUNER UNIT) (XG100AV: E2)	
5	1-693-488-11	TUNER PACK (FM/AM TUNER UNIT) (XG100AV: EXCEPT E2)	
5	1-693-490-11	TUNER PACK (FM/AM TUNER UNIT) (XG900AV)	
6	1-535-706-21	PLUG, JUMPER (XG100AV: MX/XG900AV)	
72	1-773-056-11	WIRE (FLAT TYPE) (17 CORE)	
73	1-773-032-11	WIRE (FLAT TYPE) (15 CORE)	
109	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
112	1-773-150-11	WIRE (FLAT TYPE) (21 CORE)	
151	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)	
△ 153	1-575-653-11	CORD, POWER (MX)	
△ 153	1-696-847-11	CORD, POWER (AUS)	
△ 153	1-777-071-81	CORD, POWER (AEP, UK, EA, SP)	
△ 153	1-783-941-12	CORD, POWER (AR)	
△ 153	1-791-901-11	CORD, POWER (E2)	
507	1-452-925-21	MAGNET ASSY	
△ 601	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-RP	
602	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)	
765	1-454-887-21	SOLENOID, PLUNGER	
HP101	A-2004-778-A	BASE (A) ASSY, HEAD	
HRPE101	A-2004-779-A	BASE (B) ASSY, HEAD	
M1	X-3378-246-1	MOTOR ASSY (CAPSTAN) (TAPE)	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE) (CD)	
M102	X-4917-504-1	MOTOR ASSY (SLED) (CD)	
M201	A-4660-977-A	MOTOR ASSY (TABLE) (CD)	
M901	1-763-072-11	FAN, D. C. (XG100AV)	
△ T951	1-435-249-11	TRANSFORMER, POWER (XG100AV)	
△ T951	1-435-801-11	TRANSFORMER, POWER (XG900AV)	

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#### HARDWARE LIST

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#1	7-685-871-01	SCREW +BVTT 3X6 (S)
#2	7-685-872-09	SCREW +BVTT 3X8 (S)
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3
#5	7-685-881-09	SCREW +BVTT 4X8 (S)
#11	7-628-254-05	SCREW +PS 2.6X5
#12	7-685-781-09	SCREW +PTT 2X4 (S)
#13	7-623-921-01	RING, RETAINING, CAPSTAN

\*\*\*\*\*

#### ACCESSORIES & PACKING MATERIALS

\*\*\*\*\*

△	1-569-008-21	ADAPTOR, CONVERSION 2P (XG100AV: EA, SP)
△	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (XG900AV: UK)

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

## REVISION HISTORY

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# SS-GV8/GV10AV/XG80/XG100AV/XG700/ XG900AV

## SERVICE MANUAL

Ver 1.0 2001.03



Photo: SS-GV8

- SS-GV8 is the speaker system in LBT-GV8.
- SS-GV10 is the speaker system in LBT-GV10AV.
- SS-XG80/XG700 are the speaker system in LBT-XG80/XG700.
- SS-XG100AV/XG900AV are the speaker system in LBT-XG100AV/XG900AV.

*AEP Model*

*UK Model*

*SS-XG700/XG900AV*

*E Model*

*SS-GV8/GV10AV/XG80/XG100AV*

*Australian Model*

*SS-XG100AV*

### SPECIFICATIONS

#### **SS-GV8/XG80**

Speaker system	3-way BUILT IN SW, bass-reflex type, magnetically shielded type
Speaker units	
Super Woofer:	22 cm dia., cone type
Woofer:	20 cm dia., cone type
Tweeter:	2.5 cm dia., horn type
Rated impedance	4 ohms
Dimensions (w/h/d)	Approx. 290 × 615 × 435 mm
Mass	Approx. 16 kg net per speaker

#### **SS-GV10AV/XG100AV/XG700/XG900AV**

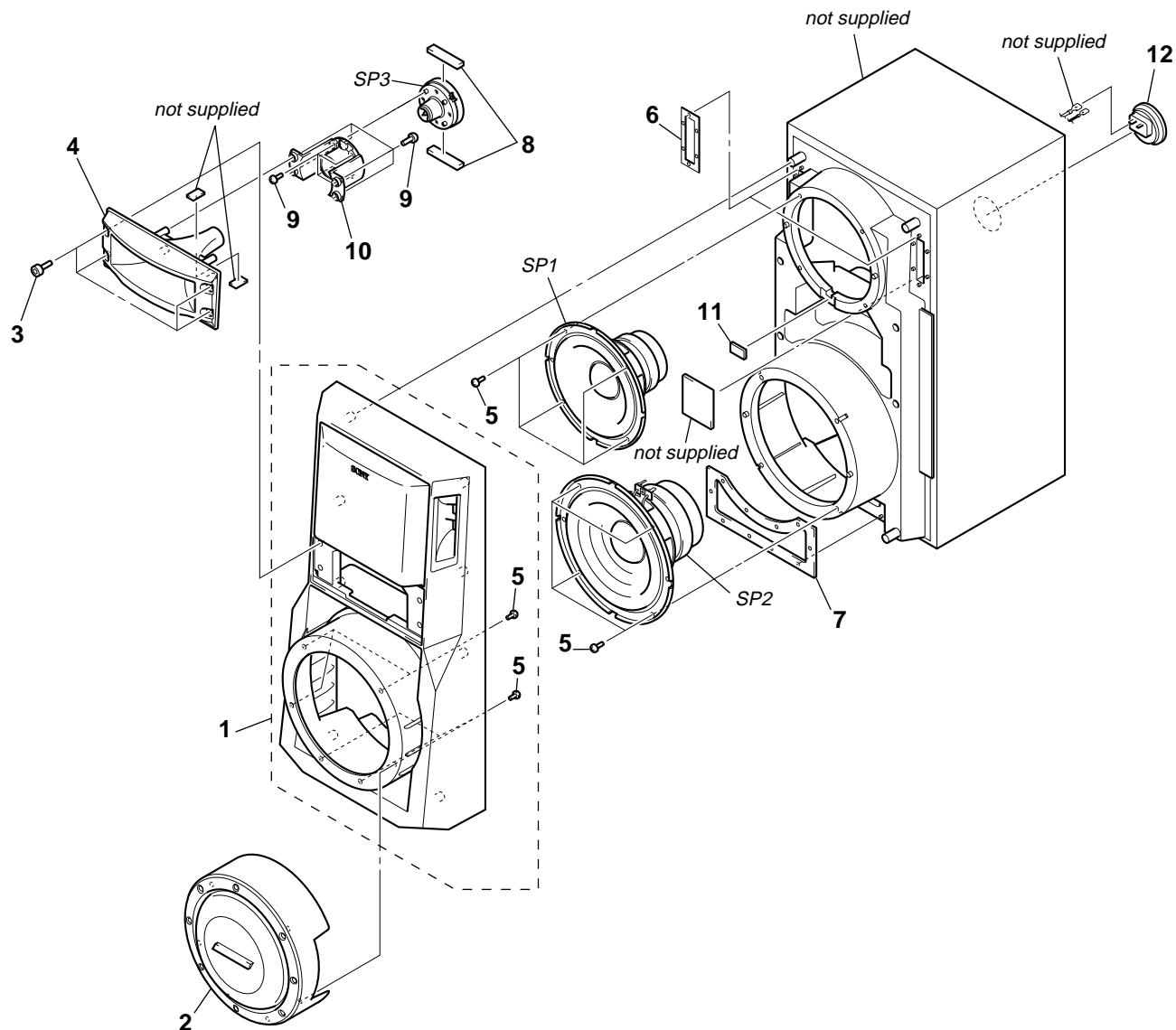
Speaker system	3-way BUILT IN SW, bass-reflex type, magnetically shielded type
Speaker units	
Super Woofer:	22 cm dia., cone type
Woofer:	20 cm dia., cone type
Tweeter:	2.5 cm dia., cone type
Rated impedance	6 ohms
Dimensions (w/h/d)	Approx. 290 × 615 × 435 mm
Mass	Approx. 16 kg net per speaker

Design and specifications are subject to change without notice.

## SPEAKER SYSTEM

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts  
Example:  
KNOB, BALANCE (WHITE) . . . (RED)

- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	X-4953-327-1	PANEL ASSY, FRONT		SP2	1-529-964-11	SPEAKER (20cm)	
2	X-4953-326-1	COVER ASSY, SW		SP3	1-529-961-11	SPEAKER (2.5cm)	
3	4-999-101-01	SCREW, HEXAGON HOLE TAPPING					
4	4-231-621-01	TW HORN				ACCESSORIES & PACKING MATERIALS	
5	7-685-661-19	SCREW +BVTP 4X12 TYPE2 N-S				*****	
6	4-231-627-01	PACKING (T)			1-775-512-21	CORD, SPEAKER CONNECTION	
7	4-231-628-01	PACKING (B)			4-210-254-01	CUSHION (FOOT)	
8	4-228-557-01	PACKING (TW)			4-234-336-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH,	
9	4-874-614-31	SCREW (4) (3.5X12), TAPPING				GERMAN, SPANISH, DUTCH, SWEDISH	
10	4-227-036-01	BRACKET				ITALIAN, PORTUGUESE, DANISH, FINNISH	
						POLISH, GREEK, CZECH, HUNGARIAN	
11	4-942-029-01	PACKING				RUSSIAN, TURKISH)	
12	1-537-332-11	TERMINAL BOARD				(XG700/XG900AV: AEP, UK)	
SP1	1-529-962-11	SPEAKER (18cm)					

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# SS-CT210/RC210/RS210

## SERVICE MANUAL

Ver 1.0 2001.04

*AEP Model  
UK Model  
E Model  
Australian Model*



Photo: SS-CT210

Photo: SS-RS210

- SS-CT210/RS210 are speaker systems in LBT-XG100AV/XG900AV/GV10AV.

### COMPONENT MODEL NAME FOR THESE SYSTEM

	SS-RC210
Center Speaker	SS-CT210
Rear Speaker	SS-RS210

### SPECIFICATIONS

#### SS-CT210

##### Center speaker:

Speaker system	Full-range, bass-reflex type, magnetically shielded type
Speaker units	
Full range	10 cm dia., cone type (2)
Rated impedance	8 ohms
Dimensions (w/h/d)	Approx. 360 × 130 × 170 mm
Mass	Approx. 2.7 kg

#### SS-RS210

##### Rear speaker:

Speaker system	Full-range, bass-reflex type
Speaker units	
Full range	10 cm dia., cone type
Rated impedance	8 ohms
Dimensions (w/h/d)	Approx. 180 × 130 × 170 mm
Mass	Approx. 1.5 kg net per speaker

Design and specifications are subject to change without notice.

## SPEAKER SYSTEM

- XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts  
Example:  
KNOB, BALANCE (WHITE) . . . (RED)  

↑

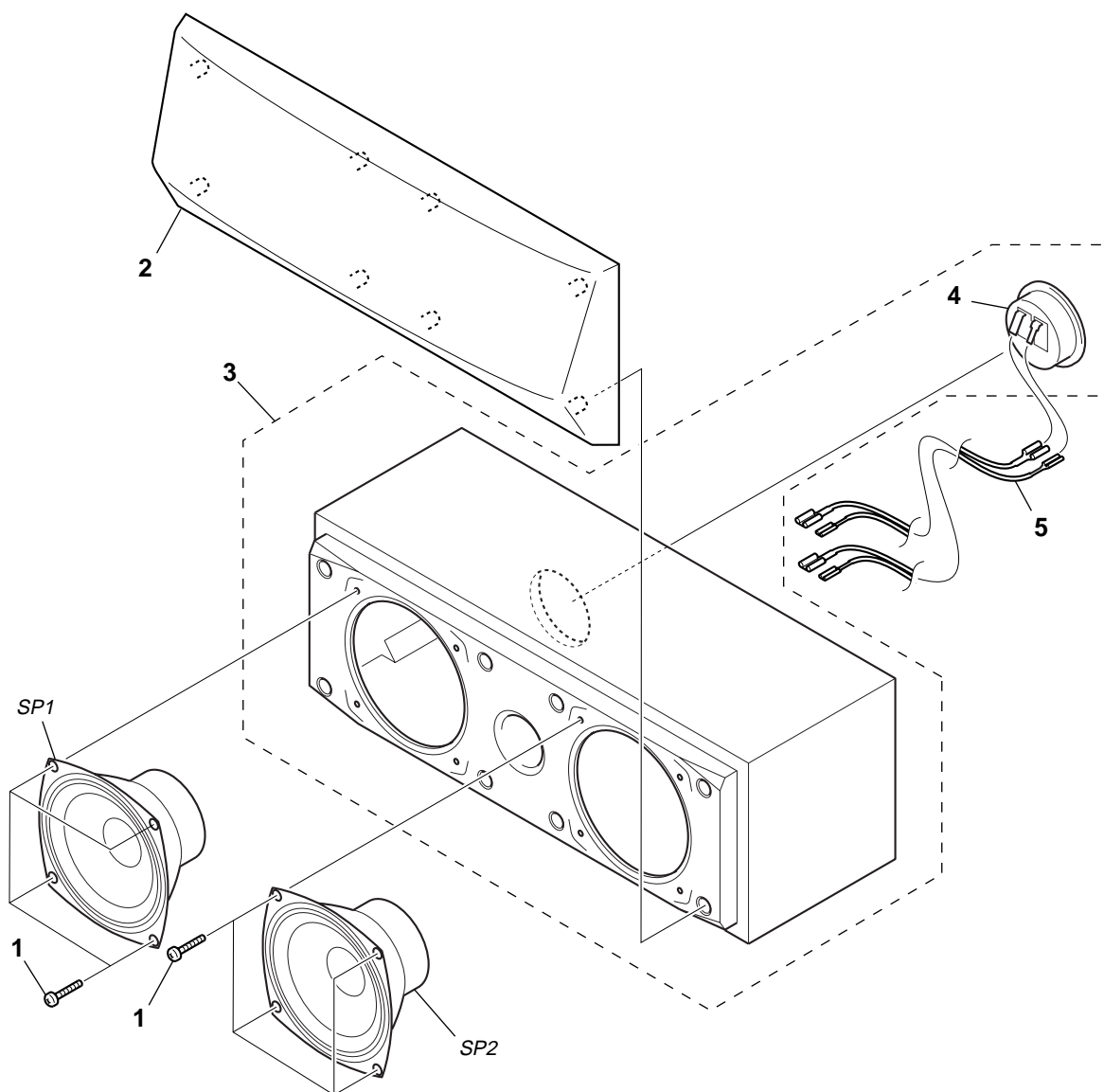
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Parts Color

Cabinet's Color
- Abbreviation  
AUS : Australian model

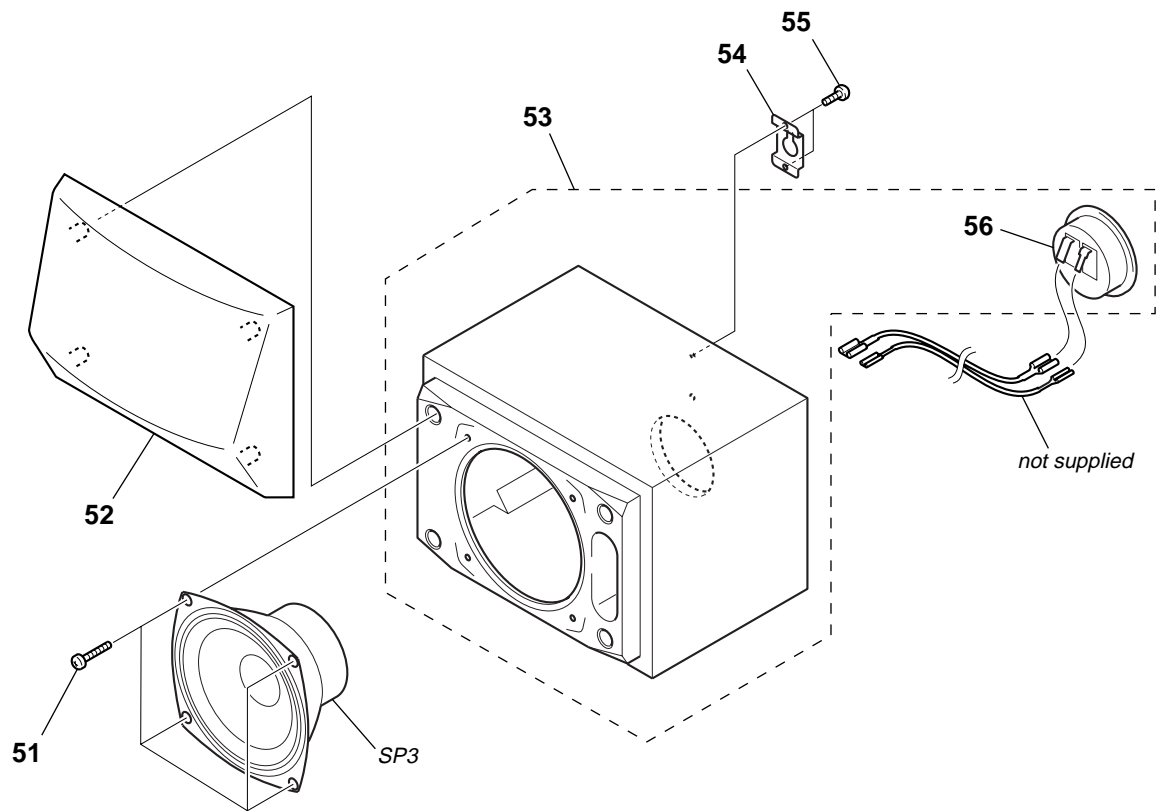
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

**(1) CENTER SPEAKER SECTION  
(SS-CT210)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-874-614-11	SCREW +BVTP 3.5X14		4	1-537-332-11	TERMINAL BOARD	
2	X-4952-768-1	FRAME ASSY, GRILLE		5	1-792-488-11	CORD, CONNECTION	
3	A-4412-823-A	CABINET ASSY, SPEAKER (E/AUS)		SP1	1-529-658-11	SPEAKER (10cm)	
3	A-4412-824-A	CABINET ASSY, SPEAKER (AEP/UK)		SP2	1-529-658-11	SPEAKER (10cm)	

(2) REAR SPEAKER SECTION  
(SS-RS210)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-874-614-11	SCREW +BVTP 3.5X14		54	4-983-074-01	BRACKET, HOOK	
52	X-4952-769-1	FRAME ASSY, GRILLE		55	7-685-648-79	SCREW +BV 3X12 TYPE2 IT-3	
53	A-4412-821-A	CABINET ASSY, SPEAKER (E/AUS)		56	1-537-332-11	TERMINAL BOARD	
53	A-4412-822-A	CABINET ASSY, SPEAKER (AEP/UK)		SP3	1-529-346-11	SPEAKER (10cm)	

SS-CT210/RC210/RS210

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
ACCESSORIES & PACKING MATERIALS			
*****			
	1-751-347-11	CORD, CONNECTION (for SS-RS210)	
	1-769-433-21	CORD, SPEAKER (for SS-CT210)	
	4-972-322-01	FOOT (Y)	
	4-983-074-01	BRACKET, HOOK	

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